# **Jurisdictional Delineation Report**

# JURISDICTIONAL DELINEATION REPORT FOR THE SALTON SEA SPECIES CONSERVATION HABITAT PROJECT

# Prepared for:

# **CALIFORNIA DEPARTMENT OF FISH AND GAME**

Attn: David Elms 78078 Country Club Drive, Suite 109 Bermuda Dunes, CA 92203

#### CALIFORNIA DEPARTMENT OF WATER RESOURCES

Attn: Kent Nelson 901 P Street, Room 411A Sacramento, CA 95814

#### **US ARMY CORPS OF ENGINEERS**

Attn: Lanika Cervantes 6010 Hidden Valley Road, Suite 105 Carlsbad, CA 92011

# Prepared Jointly by:

#### **DUDEK**

605 Third Street Encinitas, California 92024 (760) 479-4284

#### **AND**

# **CHAMBERS GROUP, INC.**

5 Hutton Centre Drive, Suite 750 Santa Ana, California 92707 (949) 261-5414

**November 2012** 

# **TABLE OF CONTENTS**

			Page No.
SECTION	1.0 – II	NTRODUCTION	1
1.1.	PROJE	ECT BACKGROUND	1
1.2.	PROJE	ECT OBJECTIVES	1
1.3.	PROJE	ECT LOCATION	2
SECTION	2.0 – J	URISDICTIONAL CRITERIA	7
2.1.	UNITE	ED STATES ARMY CORPS OF ENGINEERS	7
2.2.	REGIC	DNAL WATER QUALITY CONTROL BOARD	10
2.3.	CALIF	ORNIA DEPARTMENT OF FISH AND GAME	10
SECTION	1 3.0 – N	METHODS	11
3.1.	LITERA	ATURE REVIEW	11
3.2.	FIELD	SURVEY	11
3.3.	VEGE	TATION	13
3.4.	HYDR	OLOGY	13
3.5.	SOILS		14
SECTION	1 4.0 – R	RESULTS	15
4.1.	LITERA	ATURE REVIEW	15
4.2.	VEGET	TATION COMMUNITIES	15
	4.2.1	Tamarisk Scrub	16
	4.2.2	Iodine Bush Scrub	16
	4.2.3	Common Reed Marshes	16
	4.2.4	Cismontane Alkali Marsh	16
	4.2.5	Ruderal/Disturbed	17
4.3.	WATE	RS OF THE UNITED STATES	17
	4.3.1	Non-Wetland Waters	17
	4.3.2	Wetlands	27
	4.3.3	Hydrologic Connectivity	29
	4.3.4	Hydrology Potentially Supporting Wetlands above OHWM	29
4.4.	WATE	ERS OF THE STATE	30
	4.4.1	Regional Water Quality Control Board	30
	4.4.2	California Department of Fish and Game	30

# **LIST OF APPENDICES**

APPENDIX A – SITE PHOTOGRAPHS

APPENDIX B – WETLAND DETERMINATION DATA FORMS – ARID WEST REGION

APPENDIX C – JURISDICTIONAL DATA SUMMARY TABLE

# **LIST OF TABLES**

Table 1: Result of Hydrologic Rating Curve for New River							
LIST OF FIGURES							
Figure 1: Regional Map	3						
Figure 2: Vicinity Map	5						
Figure 3A: Index Map	19						
Figure 3B: Final Jurisdictional Delineation Map	21						
Figure 3C: Final Jurisdictional Delineation Map	23						
Figure 3D: Final Jurisdictional Delineation Map	25						

#### **SECTION 1.0 – INTRODUCTION**

The California Natural Resources Agency (Agency) proposes to develop and conduct restoration activities and develop adaptive management techniques as part of the Salton Sea Species Conservation Habitat (SCH) Project (Project). The Project is located at the southern portion of the Salton Sea in Imperial County, California (site). Chambers Group, Inc. (Chambers Group) was retained to perform a Jurisdictional Delineation (JD) for the purpose of identifying and delineating potential jurisdictional wetlands and waterways located at the Project site that are subject to the regulatory jurisdiction of the United States Army Corps of Engineers (USACE) pursuant to Section 404 of the Clean Water Act (CWA), the Regional Water Quality Control Board (RWQCB) pursuant to Section 401 of the CWA, and the California Department of Fish and Game (CDFG) pursuant to Section 1602 of the Fish and Game Code.

A jurisdictional delineation report based upon the field work conducted by Chambers Group, including maps and geographic information systems (GIS) shapefiles, was published by Chambers Group, after review by Agency, Dudek, and Cardno ENTRIX in January 2012. Upon further review of the report, the USACE determined that a further review of portions of the delineation was warranted. With guidance from the USACE, Dudek revised the delineation for the entire Project. This report represents the final jurisdictional delineation based upon the combined field efforts of Chambers Group and Dudek coupled with guidance from USACE. Chambers Group prepared the original report and Dudek revised the following sections (i.e., these sections were jointly prepared): Section 2.1 United States Army Corps of Engineers, 3.1 Literature Review, 3.2 Field Survey, 3.4 Hydrology, 4.0 Results, and Appendix B; all other sections and appendices are solely prepared by Chambers Group.

#### 1.1. PROJECT BACKGROUND

The Salton Sea is located more than 200 feet below sea level in a desert basin in Riverside and Imperial Counties, California. The Salton Sea has no natural outlet and receives additional hydrology from the surrounding landscape and agricultural practices. The Salton Sea serves as foraging grounds for resident and migratory birds, numerous fish species, and a variety of other wildlife. Salinity concentrations within the sea have become a concern for the future of the habitat conditions present in and around the sea, and may compromise the health and survivorship of the wildlife that utilize the sea. Salt that enters the sea becomes trapped and concentrations are on the rise due to the approval of the Quantification Settlement Agreement that will result in a significant decrease in water inflow to the sea. The reduction in inflow will result in a size decrease of the sea and the increase in salinity concentrations.

The current effort by the Agency is the latest attempt to develop a permanent solution to continued degradation of the environmental values of the Sea.

# 1.2. PROJECT OBJECTIVES

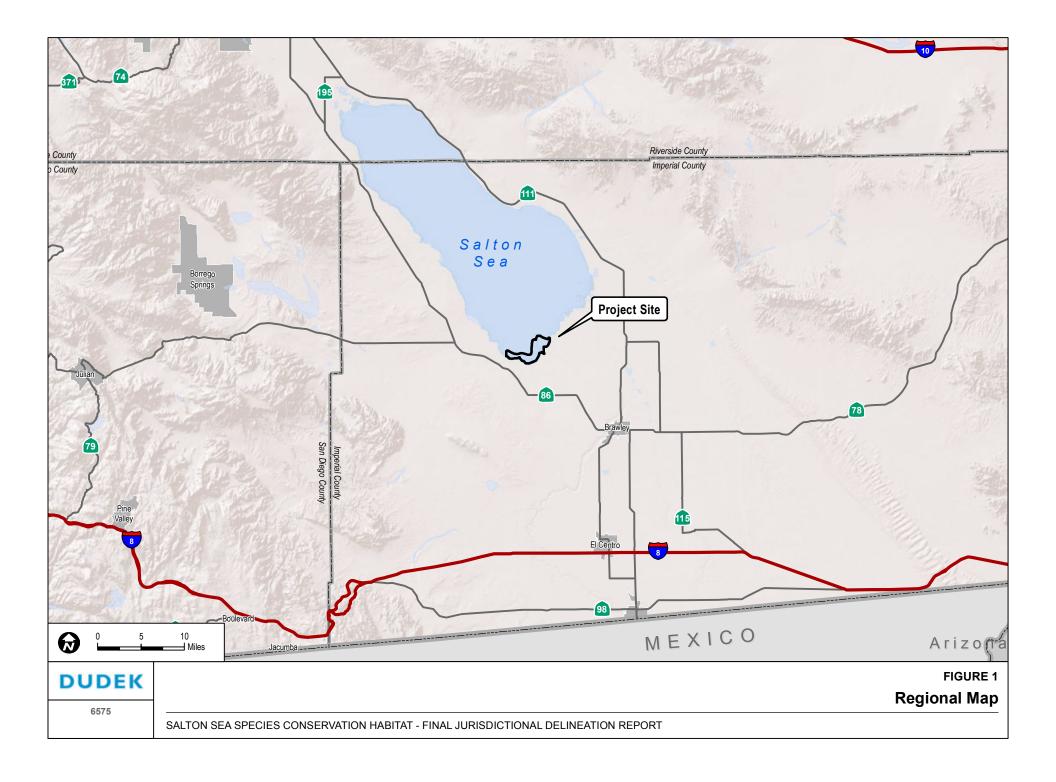
The Agency proposes restoration in an effort to develop a range of aquatic habitats that will continue to support fish and wildlife species that utilize the Salton Sea. These aquatic habitats are planned to support piscivorous bird species with foraging and other habitat needs, a sustainable aquatic community, suitable water quality for fish species, minimize adverse effects to State- and Federally-listed desert pupfish (*Cyprinodon macularius*), minimize the risk of the bioaccumulation of selenium, and minimize the risk of disease and toxicity to wildlife and plants. The Project will also develop an adaptive management strategy through the development and implementation of a monitoring plan, development

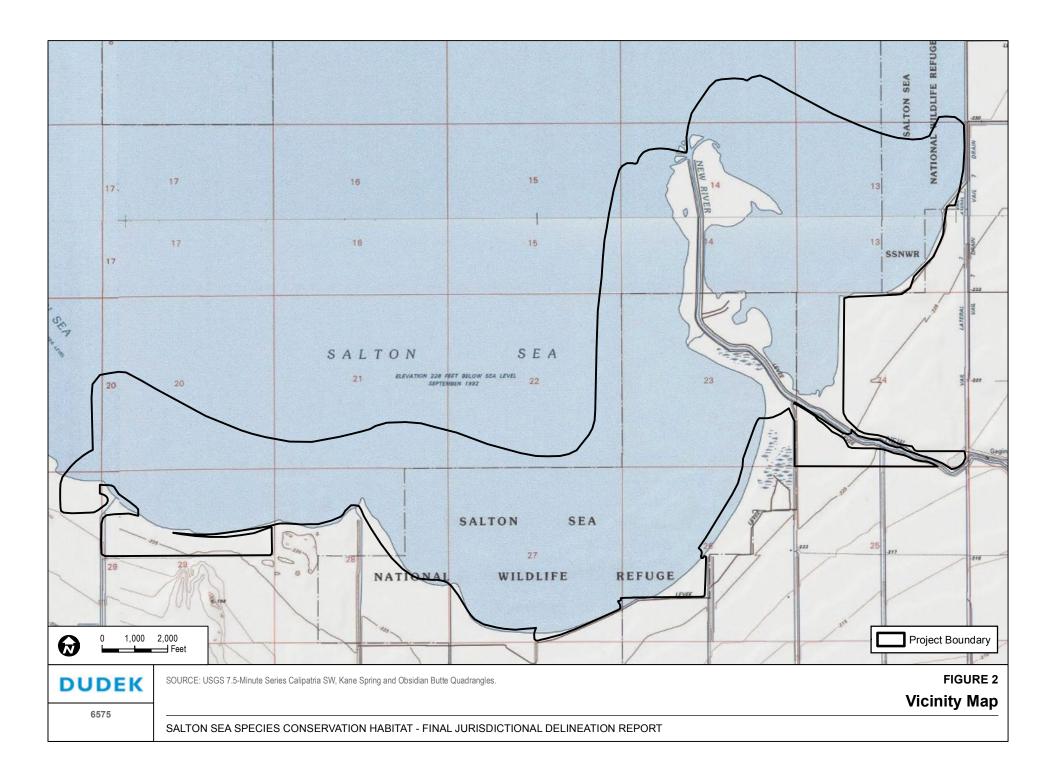
of a decision-making framework, and through the proof of concept for future restoration effort to occur at the Salton Sea.

#### 1.3. PROJECT LOCATION

The Project site is located at the southern end of the Salton Sea in Imperial County, California (Figures 1 and 2). The Project is partially located within the Sonny Bono Salton Sea National Wildlife Refuge. The Project is located in United States Geological Survey (USGS) Westmorland West and Obsidian Butte Quads, in Township 12 South, Range 12 East and Sections 13, 14, 23, 24, 25, 26, 27, 28 and 29 of the San Bernardino Meridian.

For the purposes of this report, the study area of the Project is defined as Alternative 3, as discussed and presented in the Salton Sea Species Conservation Habitat Project Draft Environmental Impact Statement/Environmental Impact Report (DEIS/EIR) as prepared by the USACE and the Agency dated August 2011. There are six staging areas identified in association with Alternative 3. In addition, two distribution lines are identified and included in this study area; one that extends approximately one mile south from the New River along Bruchard Road and the other that extends approximately 0.7 miles south from the New River along Pellet Road.





#### SECTION 2.0 – JURISDICTIONAL CRITERIA

#### 2.1. UNITED STATES ARMY CORPS OF ENGINEERS

Pursuant to Section 404 of the CWA, the USACE regulates the discharge of dredged and/or fill material into waters of the United States. Waters of the United States include navigable waterways and wetlands adjacent to navigable waterways and non-navigable waterways and wetlands adjacent to non-navigable waters that are contiguous with navigable waterways. The term "waters of the United States" is defined by 33 Code of Federal Regulations (CFR) Part 328 and currently includes: (1) all navigable waters (including all waters subject to the ebb and flow of the tide), (2) all interstate waters and wetlands, (3) all other waters (e.g., lakes, rivers, intermittent streams) that could affect interstate or foreign commerce, (4) all impoundments of waters mentioned above, (5) all tributaries to waters mentioned above, (6) the territorial seas, and (7) all wetlands adjacent to waters mentioned above. The waters of the U.S. do not include (1) waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA, and (2) prior converted cropland.

Wetlands are defined by 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support ... a prevalence of vegetation typically adapted for life in saturated soil conditions." In 1987, the USACE published a manual to guide its field personnel in determining jurisdictional wetland boundaries. This manual was amended in 2008 by the USACE 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). Currently, the 1987 Wetland Manual and the 2008 Arid West Supplement provide the legally accepted methodology for identification and delineation of USACE-jurisdictional wetlands in southern California.

The methodology set forth in the 1987 Wetland Manual and updated by the Arid West Supplement generally requires that, in order to be considered a wetland, the vegetation, soils, and hydrology of an area must exhibit at least minimal hydric characteristics. While the manual provides great detail in methodology and allows for varying special conditions, a wetland should normally meet each of the following three criteria:

- More than 50 percent of the dominant plant species at the site must be typical of wetlands (i.e., rated as facultative or wetter in the 1988 National List of Plant Species that Occur in Wetlands [Reed 1988]). These plants are known as "hydrophytic vegetation."
- Soils must exhibit physical and/or chemical characteristics indicative of permanent or periodic saturation (e.g., a gleyed color or mottles with a matrix of low chroma indicating a relatively consistent fluctuation between aerobic and anaerobic conditions). Such soils, known as "hydric soils," have characteristics that indicate they are developed in conditions where soil oxygen is limited by the presence of saturated soil for long periods during the growing season.
- Hydrologic characteristics must indicate that the ground is saturated to within 12 inches of the surface for at least five percent of the growing season during a normal rainfall year. For most of low-lying southern California, five percent of the growing season is equivalent to 18 days.

Although the most reliable evidence of wetland hydrology may be provided by a gauging station or groundwater well data, such information is often limited for most areas. Thus, most hydrologic indicators are those that can be observed during field inspection. The following indicators provide some

evidence of hydrology: (1) standing or flowing water; (2) water-logged soils during the growing season; (3) water marks present on trees or other objects associated with a drainage; (4) drift lines, or small piles of debris oriented in the direction of water movement through an area; (5) shelving; (6) destruction of terrestrial vegetation; and (7) thin layers of sediments deposited on leaves or other objects. The 2008 Arid West Supplement includes additional indicators such as surface soil cracks, inundation visible on aerial imagery, salt and biotic crusts, aquatic invertebrates, hydrogen sulfide odor, and evidence of oxidation/reduction reactions within the soil profile. In general, a combination of hydrologic indicators identifies a more defined hydrological system.

In the absence of wetlands, the limits of USACE jurisdiction in non-tidal waters, including intermittent Relatively Permanent Water (RPW) streams, extend to the Ordinary High Water Mark (OHWM), which is defined by 33 CFR 328.3(e) as:

... that line on the shore established by the fluctuation of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

On January 9, 2001, the U.S. Supreme Court ruled (in *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*) (SWANCC) that the USACE jurisdiction does not extend to previously regulated isolated waters, including but not limited to isolated ponds, reservoirs, and wetlands. Examples of isolated waters that are affected by this ruling include vernal pools, stock ponds, lakes (without outlets), playa lakes, and desert washes that are not tributary to navigable or interstate waters or to other jurisdictional waters.

A joint guidance by the U.S. Environmental Protection Agency (EPA) and the USACE was issued on June 5, 2007, to clarify circumstances where a CWA Section 404 permit would be required before conducting activities in wetlands, tributaries, and other waters. This guidance is consistent with the Supreme Court's decision in the consolidated cases *Rapanos v. United States* and *Carabell v. United States* (126 S. Ct. 2208 [2006]) (*Rapanos*), which address the jurisdiction over waters of the United States under the CWA (33 U.S.C. §1251 et seq.). This *Rapanos* guidance does not supersede the 2003 guidance interpreting SWANCC (68 FR 1991), and the agencies will continue to evaluate jurisdiction over isolated waters on a case-by-case basis.

The USACE will continue to assert jurisdiction over traditional navigable waters (TNW), wetlands adjacent to traditional navigable waters, non-navigable tributaries of TNW that are relatively permanent (RPW) where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months), and wetlands that directly abut such tributaries. The USACE generally will not assert jurisdiction over swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent, or short duration flow) or ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

The USACE does not generally consider non-tidal drainage ditches excavated on uplands to be waters of the United States. The USACE defines a drainage ditch as:

A linear excavation or depression constructed for the purpose of conveying surface runoff or groundwater from one area to another. An "upland drainage ditch" is a drainage ditch constructed entirely in uplands (i.e., not in waters of the United States)

and is not a water of the United States, unless it becomes tidal or otherwise extends the ordinary high water line of existing waters of the United States.

Furthermore, the USACE generally does <u>not</u> consider "Artificially irrigated areas which would revert to upland if the irrigation ceased" to be subject to their jurisdiction. These irrigation ditches are linear excavations constructed for the purpose of conveying agricultural water from the adjacent fields. Therefore, these agricultural ditches are not considered to be subject to USACE jurisdiction.

The USACE will use fact-specific analysis to determine whether waters have a significant nexus with TNW for non-navigable tributaries that are not relatively permanent (non-RPW), wetlands adjacent to non-navigable tributaries that are not relatively permanent, and wetlands adjacent to, but that do not directly abut, a relatively permanent non-navigable tributary. According to USACE, "a significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters," including consideration of hydrologic and ecologic factors. A primary component of this determination lies in establishing the connectivity or lack of connectivity of the subject drainages to a TNW; therefore, the drainages of the project site must be analyzed from their origins to their terminus for any USACE jurisdictional determination.

In May 2007, the USACE and EPA jointly published and authorized the use of the *Jurisdictional Determination Form Instructional Guidebook* (USACE 2007). The form and guidebook define how to determine if an area is USACE jurisdictional, and if a significant nexus exists per the Rapanos decision. A nexus must have more than insubstantial and speculative effects on the downstream TNW to be considered a significant nexus.

In addition to standard references for a jurisdictional delineation (e.g., 1987 USACE Wetlands Delineation Manual and 2008 USACE Arid West Supplement) and applicable state and federal statutes as listed above, the USACE referenced the USACE Regulatory Guidance Letter 05-05 "Ordinary High Water Mark Identification" (2005) and USACE Regulatory Guidance Letter 82-02 "Clarification of 'Normal Circumstances' in the Wetland Definition" (1982) when reviewing the original jurisdictional delineation. This guidance was applied during the re-evaluation of the original jurisdictional delineation.

USACE Regulatory Guidance Letter 05-05 states that "where the physical characteristics are inconclusive, misleading, unreliable, or otherwise not evident, districts may determine the OHWM by using other appropriate means that consider the characteristics of the surrounding areas, provided those other means are reliable. Such other reliable methods that may be indicative of the OHWM include, but are not limited to, lake and stream gage data, spillway height, flood predictions, historic records of water flow, and statistical evidence" (USACE 2005). The physical characteristics seen at the Salton Sea can be considered unreliable because they may represent relic hydrology indicators left as the Sea continues to recedes.

A normal circumstance in the Project area is the annual receding of the Salton Sea which is exposing an increasing amount of playa each year. Receding water is not a temporary situation but is a permanent circumstance and therefore this is considered the new normal. Since this is how the aquatic system currently exists, wetlands that may have existed over a record period of time in this location should not be regulated under Section 404. To be considered a wetland in normal circumstances, existing wetlands are required to be an area that is inundated or saturated by water at a frequency and duration sufficient to support aquatic vegetation (USACE 1982). The intent of Section 404 is to regulate discharges of

dredged or fill material into the aquatic system as it exists and not as it may have existed over a record period of time.

#### 2.2. REGIONAL WATER QUALITY CONTROL BOARD

The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). Porter—Cologne reserves the right for the State to regulate activities that could affect the quantity and/or quality of surface and/or ground waters, including isolated wetlands, within the State. Waters of the State determined to be jurisdictional for these purposes require, if impacted, waste discharge requirements and a 401 Certification (in the case of the required USACE permit). The State Water Resources Control Board (SWRCB) and the local Regional Water Quality Control Boards (RWQCB) are the relevant permitting agencies. Limits of jurisdiction include wetland boundaries and the OHWMs of TNWs, RPWs, non-RPWs.

# 2.3. CALIFORNIA DEPARTMENT OF FISH AND GAME

Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, CDFG regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFG defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFG's definition of "lake" includes "natural lakes or man-made reservoirs." CDFG limits of jurisdiction include the maximum extents of the uppermost bank-to-bank distance or riparian vegetation dripline.

#### **SECTION 3.0 – METHODS**

#### 3.1. LITERATURE REVIEW

Chambers Group scientists researched available maps and documents that pertain to the Project. The search consisted of a review of the USGS 7.5-minute topographic quadrangle containing the site (USGS 2011a), the United States Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) maps (USFWS 2011), the United States Department of Agriculture, National Resource Conservation Science (USDANRCS) Web Soil Survey and National List of Hydric Soils (USDA-NRCS 2009 and 2011, respectively), and a review of aerial photographs. Information from the California Natural Diversity Database was reviewed for potential habitats and species that may be present within or in the vicinity of the Project site (CDFG 2011). In addition, a review of the Salton Sea SCH Project DEIS/EIR including the Project drawings and maps was performed (USACE/Agency 2011).

In addition to conditions observed and recorded in the field by Chambers Group and Dudek, and the above listed references, a number of additional data sources, as listed below, were utilized during the process of revising the delineation:

- Topographic mapping (Ducks Unlimited 2012)
- Salton Sea Water Surface Elevation Westmorland Gage Station #10254005 (USGS 2010, 2011b, 2012a)
- New River Water Surface Elevation Westmorland Gage Station #10255550 (USGS 2012b)
- Precipitation Records Imperial Weather Station ID-IPL (NOAA 2009, 2010, 2011)
- Hydrologic Rating Curve for New River (Cardno ENTRIX 2012)
- Flood Insurance Rate Map for New River (FEMA 2008)
- Information Memo #2 (DSOD 2012)

# 3.2. FIELD SURVEY

Chambers Group scientists Michael Simmons, Rebecca Alvidrez, Ivy Watson and Maya Mazon performed the original field investigation during the week of August 15 to August 19, 2011, to determine the presence of, characterize and, if necessary, delineate on-site wetland and streams. The weather during the field investigation was sunny with afternoon air temperatures ranging from 110 to 114 degrees Fahrenheit. In the week leading up to the investigation, there was no precipitation recorded for Brawley, California (Accuweather 2011). A photographic record of Project site was collected and is included in Appendix A – Site Photographs.

Potential USACE / RWQCB / CDFG jurisdictional areas were field-checked for the presence of definable channels and/or wetland vegetation, riparian habitat, soils, and hydrology. The lateral extent of a jurisdictional drainage features were measured depending on drainage conditions. In the absence of a defined wetland, the USACE and the RWQCB traditionally use the determination of the presence of a bed and bank to the upper limit of the OHWM. Under the Rapanos court decision, the USACE now requires a fact-specific significant nexus analysis to be performed for dry or ephemeral washes (non-

RPWs) in southern California to determine the extent of USACE jurisdiction on a given project site. Connectivity was investigated and determined through a "desktop" study by utilizing the DEIS/EIR drawings and maps (USACE/Agency 2011), USGS topographic maps (USGS 2011a), NWI maps (USFWS 2011), and Google Earth images (Google 2011).

Potential wetland habitats were evaluated using the methodology set forth in the 1987 Corps of Engineers Wetlands Delineation Manual (1987 Manual) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0 (Arid West Supplement) (USACE 1987, 2008). Potential wetland habitat features were also investigated for potential CDFG jurisdiction by utilizing the USFWS one-parameter method. Features with no evidence of wetland hydrology and that supported only upland vegetation were evaluated for the upward limits of jurisdiction and not exclusively for wetland parameters.

Wetland data was recorded onto standardized Wetland Determination Data Forms – Arid West Region data forms. In order to formally determine the presence or absence of wetlands, upland features were also recorded onto the standardized data sheets. Sample plots were established and recorded data included plant species with estimated percent areal coverage within each vegetation stratum (i.e., tree, sapling/shrub, herb, woody vine), soil profiles investigated in soil pits, and evidence of hydrology. The Wetland Determination Data Forms are included in Appendix B.

The RWQCB jurisdictional limits includes USACE jurisdictional areas, OHWMs in non-RPWs, isolated wetlands, and other features that have an effect on surface or subsurface water quality within California.

The CDFG claims jurisdiction to the top of the bank on either side of the drainage or to the outer edge of all riparian vegetation, whichever measurement is greater, and including associated riparian wetlands that can be defined using the one-parameter USFWS methodology for wetland habitat identification. This edge, as determined by the "dripline" of the riparian canopy, is used as the line of demarcation between riparian and upland habitats. On smaller streams or dry washes with little or no riparian habitat, the top of the bank is used to mark the lateral extent of CDFG jurisdictional drainage. Drainage widths were measured for jurisdictional acreage calculations.

Lastly, the OHWM of the Salton Sea was determined to be located at the -231-foot below sea level elevation. This elevation is based on the average elevation of the water level within the sea from June 21, 2009 through June 20, 2010. The -231-foot below sea level elevation, for the purposes of presenting its location on Project figures and for calculating potential impact acreages, was provided by Ducks Unlimited. That data for the elevation contour was modified for the purposes of GIS analysis. The elevation contour was "traced" at a 1:600 ratio using ArcGIS so that it could be incorporated into the data that was collected in the field. This methodology was discussed and confirmed with DUDEK.

On March 30, 2012, a conference call attended by USACE, CDFG, Department of Water Resources (DWR), Cardno ENTRIX, and Dudek staff included discussion of the jurisdictional delineation and, in particular, the lack of current indicators of hydrology within much of the Project. On April 11, 2012, staff from USACE, CDFG, Cardno ENTRIX, and Dudek conducted a site visit to review the original jurisdictional delineation. During this field visit, the team reviewed several areas included in the original delineation, such as exposed playa, original soil pits, and staging areas. Additional data was collected in areas where the delineation was called into question. The additional Wetland Determination Data Forms from this site visit are included in Appendix B.

#### 3.3. VEGETATION

For the purposes of wetland delineation, plants are categorized according to their probabilities to occur in wetlands versus non-wetlands in accordance with the categories in the *National List of Species that Occur in Wetlands* (Reed 1988). More specifically, the California Land Resource Region (Region 0) wetlands plant list is used, which is a regional adaptation of the *National List*. The wetland species categories are:

- I. **Obligate Wetland (OBL)** Occur almost always (estimated probability >99 %) under natural conditions in wetlands.
- II. **Facultative Wetland (FACW)** Usually occur in wetlands (estimated probability 67 % to 99 %), but occasionally found in non-wetlands.
- III. **Facultative (FAC)** Equally likely to occur in wetlands or non-wetlands (estimated probability 34 % to 66 %).
- IV. **Facultative Upland (FACU)** Usually occur in non-wetlands (estimated probability 67 % to 99 %), but occasionally found in wetlands.
- V. Obligate Upland (UPL) May occur in wetlands in another region, but occur almost always (estimated probability >99 %) under natural conditions in non-wetlands in southern California. All species not listed on the National List of Species that Occur in Wetlands (Reed 1988) are considered to be UPL.
- VI. **No Indicator (NI)** NI is recorded for those species for which insufficient information was available to determine an indicator status.

Plant species and absolute percent covers are recorded by stratum (i.e., tree, sapling/shrub, herb, woody vine) and evaluated for dominance and prevalence according to guidelines in the 1987 Manual and Arid West Supplement. Naming conventions follow the Jepson Manual (Hickman 1993).

#### 3.4. HYDROLOGY

During the original Chambers Group delineation, typical hydrologic indicators were observed per the 1987 Manual and Arid West Supplement guidelines and recorded. Indicators identified included surface water, saturation, sediment deposits, drift deposits, surface soil cracks, water-stained leaves, biotic crust, aquatic invertebrates, and oxidized rhizospheres along living roots. Climate and flow frequency was considered when observing watermarks and drift lines. For the purpose of determining hydrologic connectivity to a TNW, aerial photos, NWI maps, and USGS quadrangle maps were referenced; and features were inspected in the field on- and off site for true connectivity.

Further review of the hydrologic dynamics of the Salton Sea was necessary to determine the extent of jurisdictional features within the Project area. Jurisdiction over relatively extensive areas of exposed Salton Sea playa (i.e., former seabed) was determined through field investigations and an evaluation of numerous hydrologic data. Areas of currently exposed playa are due to the continued, gradual but consistent, receding water surface elevation of the sea. These areas were specifically investigated to determine the extent of jurisdictional areas. As discussed above, hydrology from the Salton Sea is based

on gage station data which shows that the water surface elevation of the sea is consistently receding since at least 2006. In addition, the potential for storm events to provide hydrology to the exposed playa was evaluated through review of a Flood Insurance Rate Map, a hydrologic rating curve, and an information memo for the New River (FEMA 2008; Cardno ENTRIX 2012; DSOD 2012).

#### 3.5. SOILS

The USDA-NRCS Web Soil Survey (USDA-NRCS 2009) was referenced for soil types found within and in the vicinity of the Project site. In the field, soil pits were investigated in representative delineated features within the Project site, and were evaluated according to guidelines in the 1987 Wetland Manual and Arid West Supplement. Soil layers were examined for the presence or absence of hydric soil indicators and oxidation/reduction features indicative of historic saturated soil conditions.

#### **SECTION 4.0 – RESULTS**

The results presented below represent the site conditions at the time of the investigation. This site investigation was performed under normal environmental conditions for the time of the year. The vegetation was assessed during the growing season, and there were no recent storm events or other indications that vegetation or soil condition had been altered.

#### 4.1. LITERATURE REVIEW

The USFWS NWI online mapper indicates the presence of multiple classes of wetlands and one named blue line within the Project area (NWI 2011). The named blue line feature is identified as the New River. Lacustrine wetlands constitute the largest portion of wetland classes throughout much of Project area with lesser amounts of palustrine freshwater wetlands along the peninsula associated with the New River, and riverine wetlands associated with the New River (NWI 2011). The USDA-NRCS Web Soil Survey indicates 11 soil types within the Project site (USDA-NRCS 2009). The soil types include:

- Fluvaquents, saline
- Holtville silty clay, wet
- Imperial silty clay, wet
- Imperial-Glenbar silty clay loams, wet, 0 to 2 percent slopes
- Indio lam, wet
- Indio-vint complex
- Meloland very fine sandy loam, wet
- Meloland and Holtville loams, wet
- Rositas fine sand, wet, 0 to 2 percent slopes
- Vint loamy very fine sand, wet
- Water

Fluvaquents, saline is listed as a hydric soil on the National Hydric Soils List (USDA-NRCS 2011a).

Additional literature review was conducted to assess hydrology; the results of this review are presented in Section 4.3.4.

# 4.2. **VEGETATION COMMUNITIES**

There were five vegetation communities observed within the Project area that included tamarisk scrub, iodine bush scrub, common reed marshes, cismontane alkali marsh, and ruderal/disturbed. These communities are described below. Other habitat types observed, but were unvegetated within the Project area included open water, exposed playa and drainage ditches. Additionally, agricultural practices were observed adjacent to the Project area.

#### 4.2.1 Tamarisk Scrub

Tamarisk Scrub is characterized as a weedy monoculture of any of several Tamarisk species (*Tamarix* spp.) usually replacing native vegetation following major disturbance. This vegetation community can be found on sandy or gravelly braided washes or intermittent streams, often in areas where high evaporation increases the stream's salinity. Tamarisk is a prolific seeder and strong long-rooted plant that absorbs water from the water table or the soil above it. These characteristics make this species an aggressive competitor in disturbed riparian corridors (Holland 1986). Tamarisk scrub was the predominant vegetation community observed throughout much of the wetland portion of the Project area. This vegetation community was observed within the exposed playa and upper extent of the shoreline of the Salton Sea, above the -231-foot below sea level elevation. Tamarisk scrub was also closely associated with the drainages within the Project area, and the riparian vegetation of the New River.

# 4.2.2 Iodine Bush Scrub

lodine Bush Scrub is dominated by iodine bush (*Allenrolfea occidentalis*). Shrubs in this community are typically less than 7 feet in height with an open to continuous canopy. The herbaceous layer is variable and may include salt grass (*Distichlis spicata*) and alkali sacaton (*Sporobolus airoides*). This community can be found on dry seabed margins, hummocks, playas perched above current drainages, and seeps (Sawyer and Keeler-Wolf 2009). Iodine bush scrub was also a common vegetation community throughout the Project area but to a lesser extent than that of Tamarisk Scrub. Similar to what was reported in the DEIS/EIR, iodine bush scrub was observed in relatively open stands on the shores and exposed playa of the Salton Sea, and primarily above the -231-foot below sea level elevation (USACE 2011). This community was observed along some of the agricultural drainages, within former agricultural fields, and at the outlet/mouth of the New River.

#### 4.2.3 Common Reed Marshes

Common Reed Marshes are dominated by common reed (*Phragmites australis*). Herbs are less than 13 feet in height with a continuous canopy. This community is found in semi-permanently flooded and slightly brackish marshes, ditches, impoundments. Soils have high organic content and are poorly aerated (Sawyer and Keeler-Wolf 2009). Common reed marshes occurred much less frequently throughout the Project area. The community was well established in association with the New River in the Project area. Other areas of common reed marshes were observed at a lesser extent than the tamarisk scrub or iodine bush scrub throughout the Project area above the -231-foot below sea level elevation, primarily associated with the agricultural drainage portions of the Project area.

# 4.2.4 <u>Cismontane Alkali Marsh</u>

Cismontane Alkali Marsh is dominated by perennial, emergent, herbaceous monocots up to 7 feet in height. Cover is often complete and dense. This community is characterized by standing water or saturated soil present during most of all of the year. High evaporation and low input of fresh water render these marshes somewhat salty, especially during the summer. Cismontane Alkali Marshes can be found on margins of lakebeds and occasionally near the Colorado River in eastern Riverside and Imperial Counties. This community is now much reduced in area by drainage and cultivation. There was one area of this vegetation community observed within the Project area, in association with Drainage 3 along the upper extent of the Salton Sea shoreline. Drainage 3 is located in the Far West New portion of the Project area as identified in the DEIS/EIR (USACE 2011).

#### 4.2.5 Ruderal/Disturbed

Areas classified as Ruderal are dominated by pioneering herbaceous species that readily colonize disturbed ground and are typically found in temporary, often frequently disturbed habitats (Barbour *et al.* 1999). The soils in Ruderal areas are characterized as heavily compacted or frequently disturbed. The vegetation in these areas is adapted to living in compact soils where water does not readily penetrate the soil. Disturbed areas are those areas that are either devoid of vegetation (cleared or graded), such as dirt roads, or those areas that are dominated by non-native weedy species. Disturbed areas were concentrated in the southeastern-most extent of the Project area (East New area as described in the DEIS/EIR (USACE 2011) due to the dominance of agriculture adjacent to the Project area. Other areas of disturbed community were observed in the western portion of the Project area, the western end of Drainage 15, and the various access roads within the Project area.

#### 4.3. WATERS OF THE UNITED STATES

The Project area includes three jurisdictional types: non-wetland waters, vegetated wetlands, and unvegetated wetlands.

#### 4.3.1 Non-Wetland Waters

Non-wetland waters include two types:

- 1. Lacustrine Waters—areas below the OHWM of the Salton Sea and
- 2. Riverine Waters—areas below the OHWM of the New River or one of several agricultural drains within the Project area.

#### 4.3.1.1 Lacustrine OHWM Determination

As previously discussed, the physical characteristics normally used to determine OHWM seen at the Salton Sea can be considered unreliable because they are likely relic hydrology indicators left as the Sea continues to recedes. USACE Regulatory Guidance Letter 05-05 allows for the use of other reliable methods to determine the OHWM where physical characteristics are misleading. Therefore the OHWM of the Salton Sea is defined by the recorded high water surface elevation for the most recent period representing "normal circumstances" for purposes of this delineation by excluding records during potential drought periods, per USACE guidance (USACE 1982). The most recent period of normal circumstances was determined using the nearest WETS station data collected and published by the United States Department of Agriculture (USDA 2012). The WETS program uses recorded rainfall (from 1928 to 2002) and determines the amount of rainfall that has a 30% chance of falling on a given month or an annual basis. For example, the nearest WETS station to the Project is the Brawley 2 SW station. The station data indicates that on an annual basis there is a 30% chance of receiving less than 1.64 inches and a 30% chance of receiving greater than 3.77 inches of precipitation. This thus represents the range of normal conditions. The National Weather Service also provides precipitation records including annual total based on water years (October-September) and a comparison of that total to the average recorded precipitation (percent of average) (NOAA 2009, 2010, 2011). The nearest National Weather Service station to the project is Imperial which had the following recorded rainfall:

1.39 inches (46% of normal) for the 2009 water year,

- 3.98 inches (132% of normal) for the 2010 water year, and
- 2.57 inches (85% of normal) for the 2011 water year.

Thus, the 2010 and 2011 water years would represent normal conditions, with regards to rainfall, whereas the 2009 water year would represent a drought condition. The following is the corresponding high water surface elevation recorded USGS Westmorland gage station for the Salton Sea (2010, 2011, 2012a):

- A maximum elevation of 230.0 feet below sea level for the 2009 water year
- A maximum elevation of 230.6 feet below sea level for the 2010 water year
- A maximum elevation of 231.1 feet below sea level for the 2011 water year

Based on these data and given that topographic data for the Project is available at 1-foot contours, the -231 foot below sea level elevation was determined to be the current OHWM of the Salton Sea. All areas below -231 foot sea level are considered jurisdictional waters. These jurisdictional areas occupy the downstream (i.e., northern and western) portion of the Project area.

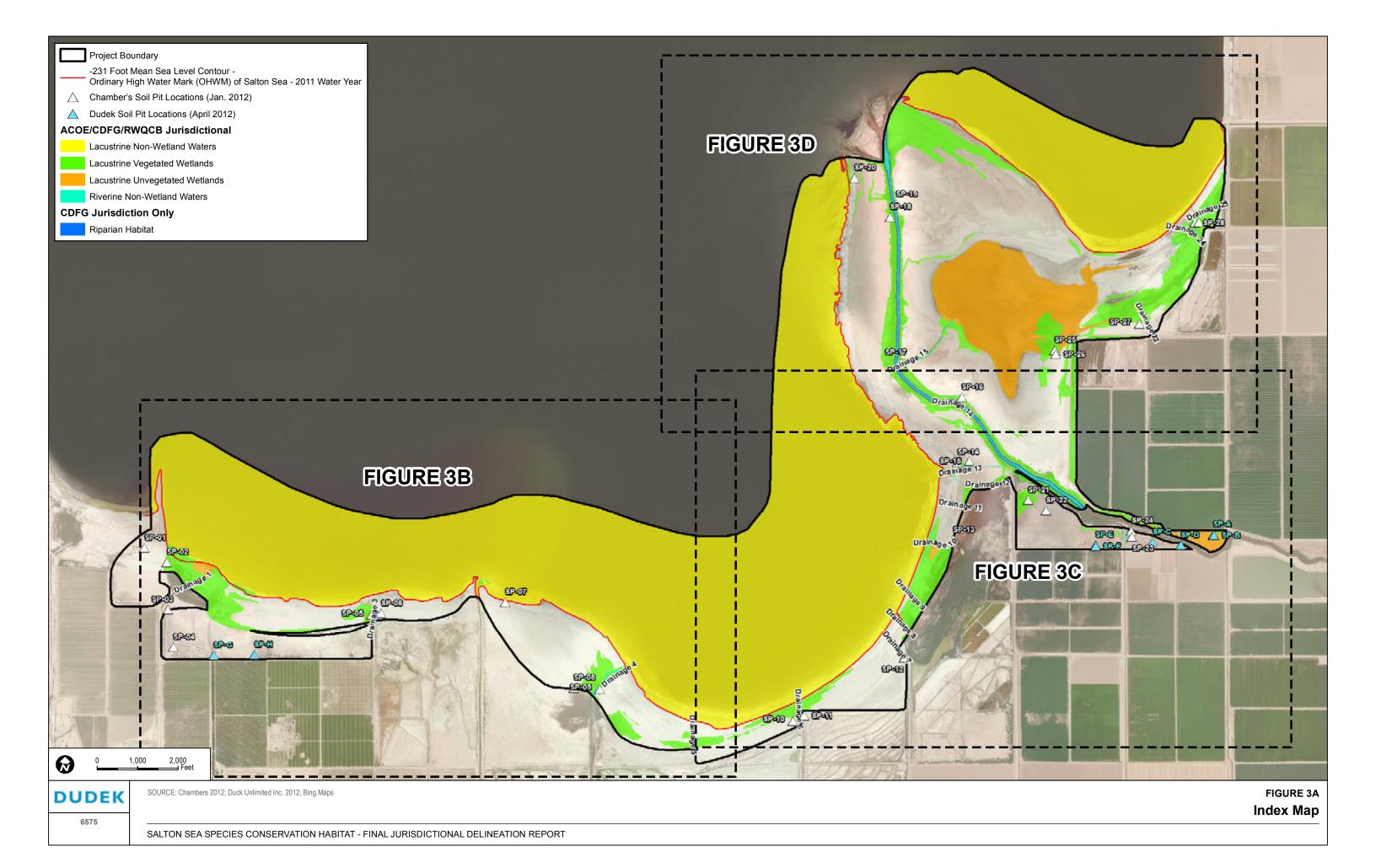
The total lacustrine non-wetland Waters of the U.S. present in the Project area is 2,188 acres.

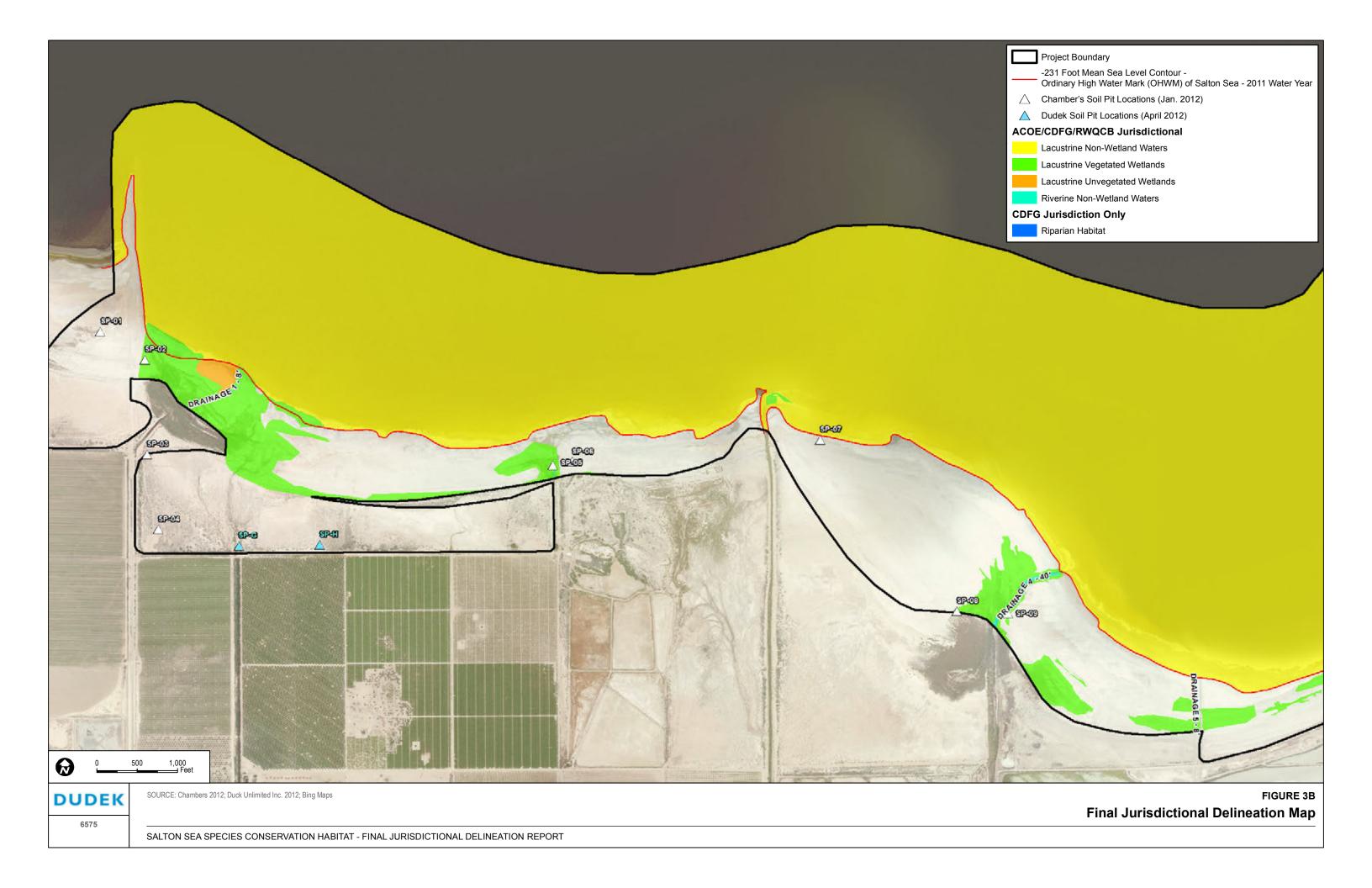
#### 4.3.1.2 Riverine OHWM Determination

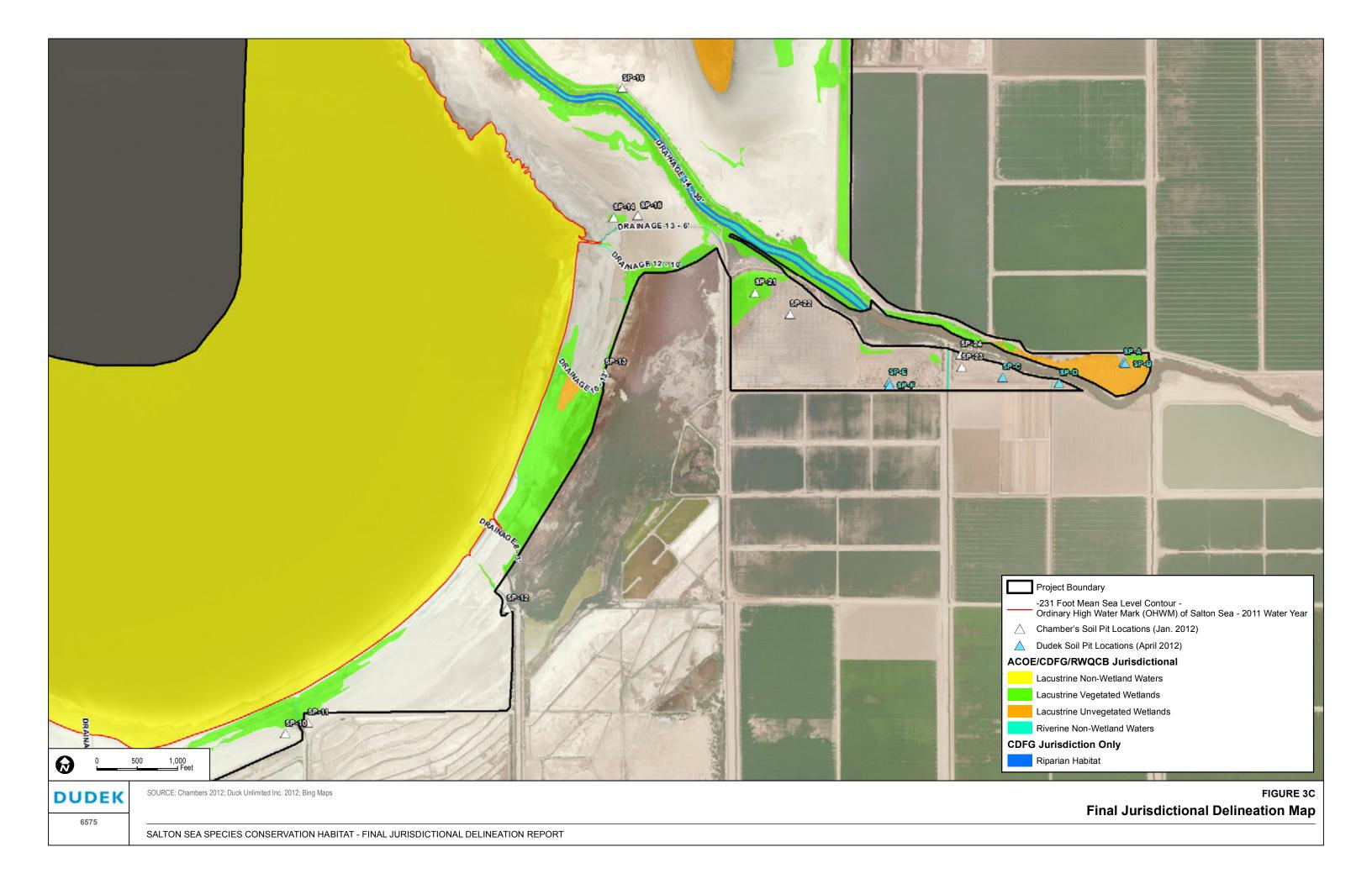
There were 25 drainages observed within the Project area that channel water in the general direction of and discharge into the Salton Sea. Each drainage exhibited signs of an OHWM, and the OHWM widths ranged from 2 feet up to 30 feet. The drainages demonstrated unvegetated channels within the OHWM and many had associated wetland vegetation. The drainages receive hydrology primarily from agricultural runoff, and receive additional hydrology from direct precipitation and local stormwater runoff. A summary table of data associated with the 25 drainages is presented in Appendix C. Figures 3A-D depict the location of the drainage features.

#### **New River**

The New River (Drainage 14) is a perennial waterway with an OHWM of approximately 30 feet in width that was unvegetated and appeared to have a mud bottom. The banks of the river contained associated riparian vegetation that was dominated by southern cattail (*Typha domingensis*) and common reed (*Phragmites australis*). The river is separated from the sea by a berm that has been constructed for access purposes. The berm is approximately 5 to 7 feet in height (from the water level at the time of the survey) and an access road runs along the top of the berm. The river flows north through the Project area and discharges into the Salton Sea. Prior to discharging into the sea, the New River crosses through mixed-use agricultural lands and runoff from the agricultural lands contributes hydrology to the system. Direct precipitation and local stormwater runoff also contribute hydrology to the New River system. The New River is approximately 11,480 linear feet in length and encompasses approximately 11 acres within the Project area.









#### **Agricultural Drainages**

The remaining 24 drainages are ephemeral waterways that demonstrated signs of an OHWM, and contained unvegetated bottoms. Many of the drainages discharge directly into the Salton Sea. There were seven drainages that are utilized for agricultural purposes and concrete-lined; however those drainages demonstrated a definable OHWM and are hydrologically connected to drainages that discharge directly into the Salton Sea. The 24 drainages directed both seasonal stormwater runoff and agricultural runoff directly to the sea. Of the 24 drainages, seven were named according to the USDA-NRCS Web Soil Survey (USDA-NRCS 2009), and included; Poe Lateral (Drainage 1), Trifolium Drain 1 (Drainage 4), Thistle Lateral 8 (Drainage 7), Trifolium Lateral 12 (Drainage 13), Trifolium 12 Drain (Drainage 16), Trifolium Lateral 11 (Drainage 19), and Trifolium 11 Drain (Drainage 20). The 24 ephemeral drainages total approximately 12,820 linear feet and encompass approximately 4 acres with the Project area.

#### 4.3.2 Wetlands

Positive indicators for all three wetland parameters (hydrophytic vegetation, hydric soils and wetland hydrology) were present as patches throughout the Project area. Vegetation was not present throughout the entirety of the wetland; however, the vegetation that existed within the wetlands was established with dense areal coverage.

To determine the extent of wetlands which rely on the Sea as the sole source of hydrology, the WETS station data, as discussed in Section 4.3.1.1, was reviewed to determine when the last "normal rain event" occurred within the Project area. Review of this data has determined that for the past 3 years, the Salton Sea has not inundated areas above -231 foot sea level. Therefore, all hydrologic indicators in areas above the last normal rain year line (-231 foot sea level), and areas that do not receive hydrology from a secondary source (i.e. drainage outfall), are considered relic hydrology indicators. Based on the new normal circumstances that the Sea is gradually, but consistently, receding, these areas will not receive hydrology from the Sea in the future.

Because these areas are considered to have relic hydrology, the hydric soils that are also observed within these areas are considered to be relic soils. Areas above the -231 foot sea level were part of the Sea's bottom for over 100 years, and since 2006 the Sea has been recorded as gradually receding and exposing these areas. The new normal circumstances are that these areas have not received hydrology from the Sea for at least 3 years and will not receive hydrology from the Sea in the near future. Therefore, areas above the -231 line that do not receive hydrology from sources other than the Sea were determined to be non-jurisdictional upland playa areas.

Several wetlands within the Project area may receive their hydrology from the drainages located throughout the site. Hydrophytic vegetation was largely associated with the outlets of these drainage features and therefore the outlets to these drainages are assumed to contained recent and continuous hydrology and met the 3-parameter wetland test.

Figures 3A-D depicts the wetland boundary, the location of the sample plots established during the field delineations, and the vegetated wetland areas that were observed within the Project site.

#### **Vegetated Wetlands**

Vegetated wetlands are based observation of current indicators of hydrophytic vegetation, hydric soils, and hydrology (i.e., three criteria per the USACE manual and supplement [USACE 1987, 2008]) during field investigations conducted by Chambers and Dudek. These jurisdictional areas were mapped around several agricultural drain outlets along the Salton Sea shoreline as well as lands adjacent to the New River. These wetlands are mostly located above the OHWM of the Salton Sea; however some areas extend below the OHWM.

Vegetation was dominated by iodine bush (FACW), tamarisk (FAC), with lesser amounts of saltbush (*Atriplex* spp., FAC), southern cattail (OBL), and salt grass (FACW). Young, emergent iodine bush and tamarisk was also observed throughout much of the wetland, but at lower densities and areal coverage. Evidence of hydrology within vegetated wetlands included saturation, inundation visible on aerial imagery, drift deposits, and hydrogen sulfide odor as the primary indicators. Drainage patterns were observed as a secondary indicator of hydrology.

A total of 29 soil pits were explored throughout the Project area during the Chambers Group delineation and 8 during the Dudek delineation. Many of the soil pits explored revealed a multi-layer soil profile of clay, silt, loam, and sand textured soils. Soil colors were varied and consisted of 5Y, 2.5Y, 10 YR, and 7.5 YR with values ranging from 3 to 6, and chromas primarily between 3 and 1 (GretagMacbeth 2009). Prominent and distinct redoxomorphic features were observed in many of the wetland soil pits, and many met the conditions of the F3 – Depleted Matrix indicator for hydric soils. Gleyed matrices were also observed within the soil pits, and met the hydric soil indicator F2 – Loamy Gleyed Matrix. Soil data collected during the delineation can be found in the Wetland Determination Data Forms – Arid West Region presented in Appendix B.

The vegetated wetlands comprise approximately 349 acres of the Project area (Figures 3A-D).

#### **Unvegetated Wetlands**

Unvegetated wetlands include a few specific areas that have recent indicators of hydric soils and hydrology (similar to those listed above for vegetated wetlands) but may not support vegetation due to historical or current disturbance, including high salinity. A bay-like area is present north of the New River where a gate control structure has been placed by the USFWS in the north bank of the New River allowing a drainage to form (Drainage 15, Figure 3D) and water to be conveyed into an area that would otherwise likely be an exposed playa. The lack of hydrophytic vegetation in this area is likely due to high salinity. The extent of unvegetated wetlands in this area was determined through interpretation of a 2012 aerial photograph (Bing Maps 2012). Additional areas along the Salton Sea include exposed playas surrounded by wetland vegetation and proximate to agricultural drains. In the potential staging areas, unvegetated wetlands include a wide drainage ditch and portions of agricultural fields that support hydric soils and are proximate to the New River, thus providing a potential source of hydrology.

Unvegetated wetlands occupy 196 acres of the Project area.

#### **Non-jurisdictional Exposed Playa**

Areas that did not support wetlands vegetation often had relic indicators of hydrology and hydric soils, as discussed above. These indicators included surface soil cracks, drift deposits, salt crust, aquatic invertebrates and fish skeletal remains. Although the above are signs of hydrology, when compared to historical data and the references cited in Section 3.0 Methods, it was determined that many of these indicators were from previous years of hydrological activity and do not represent current hydrological conditions.

Although hydric soil indicators were present within many of the areas sampled, some soils in the Arid West exhibit redoximorphic features and hydric soil indicators that formed in the recent or distant past when conditions may have been wetter than they are today. These features have persisted even though wetland hydrology may no longer be present. Therefore, where hydrophytic vegetation and indicators of current hydrology are lacking, hydric soil indicators are considered to be relic and not an indicator of current wetness.

There are approximately 1,260 acres of non-jurisdictional exposed playa within the Project area.

# 4.3.3 Hydrologic Connectivity

The Salton Sea is a TNW (USACE 2011), and drainages that were observed within the Project area were evaluated for their connectivity to the sea.

The Salton Sea is recognized as a TNW, and the New River as an RPW flowing directly into a TNW (USACE 2011); therefore both are Waters of the U.S. The remaining 24 drainages demonstrated signs of an OHWM and flow in the direction of the Salton Sea from and through the Project area, directly discharging into the Salton Sea, a TNW. Many of the drainages are non-navigable RPW tributaries to a TNW.

A significant nexus was determined to exist for the Project based on the following facts:

- The 24 drainages are RPW and are hydrologically connected to a TNW (Salton Sea). RPWs, by definition, are USACE-jurisdictional;
- The drainages have the capacity to carry pollutants, nutrients, and organic carbon to the nearest TNW. Agricultural practices were immediately adjacent to the banks of the drainages that likely result in direct surface runoff for pollutants;
- The nutrients and organic carbon support in-stream and downstream food webs; and
- The 24 drainages effectively contribute to interstate commerce by channeling water towards the Salton which is used for boating, fishing, other recreation, and agricultural practices. Water quality is vital to the success of recreational and business opportunities that the Salton Sea presents to the public and to private residents.

# 4.3.4 <u>Hydrology Potentially Supporting Wetlands above OHWM</u>

At the request of the USACE, Dudek and Cardno ENTRIX conducted a review of the hydrology of the New River to determine the potential for the New River to provide storm flows that could support wetlands. Wetlands are areas that are flooded or ponded or have soils that are saturated with waters for long

periods during the growing season in most years. Generally wetlands are inundated or saturated in most years (at least 5 years in 10, or 50% or higher probability) (USACE 2008). The relevant gage data (USGS 2012b) was used to develop a hydrologic rating curve (Cardno ENTRIX 2012). This rating curve provides stage heights for various project storm events (Table 1).

Table 1: Result of Hydrologic Rating Curve for New River

Return Period / Storm Event	Q / Flow Rate (cubic feet per second)	Stage Height (feet)
2-Year	883	7.24
5-Year	1,141	9.23
10-Year	1,404	11.26
25-Year	1,864	14.80
50-Year	2,320	18.31
100-Year	2,894	22.73

Source: Cardno ENTRIX 2012

The cross-sections of the berms on the New River at the Project site indicate that the berm height is approximately between 15 and 17 feet in height from channel bottom (DSOD 2012). Thus, the analysis indicates that a greater than 25-year storm event is necessary for flows to breech the New River and inundate adjacent areas. If the breech were to occur, it would first occur on the western bank and therefore flood the southern/western portions of the Project area). In the arid west the ordinary storm frequency is generally the 5-10 year rain event and the likelihood that a 25-year rain event would occur at a regular frequency to continuously inundate the adjacent playas is low. Therefore, the New River was not considered a secondary hydrology source for the playas. Only the areas at the New River weir and the outlet of the New river continuously receive hydrology from the river.

#### 4.4. WATERS OF THE STATE

# 4.4.1 Regional Water Quality Control Board

The limit of the RWQCB jurisdiction includes the Salton Sea and associated vegetated and unvegetated wetlands, and the area within the OHWM of the 25 observed drainages, which are RPWs that are hydrologically connected to a TNW. An area of approximately 2,733 acres is Waters of the State under the jurisdiction of the RWQCB (Table 2).

#### 4.4.2 California Department of Fish and Game

Waters of the State under the jurisdiction of the CDFG were field-delineated as the area within the top of the banks and an associated vegetation dripline, and the Salton Sea and associated wetlands. For drainages, CDFG jurisdiction extends to the top of the bank and includes a vegetation dripline. The New River is the only drainage within the Project area that contains associated riparian vegetated banks due to the berms that separate the river from the sea. The width of the bank-to-bank field delineation measurement of the vegetated banks of the New River was approximately 80 feet, and the area of additional CDFG jurisdiction on the New River as riparian habitat is approximately 15 acres. The jurisdiction of CDFG for the lake and streambed, and associated wetlands is 2,733 acres.

Table 1 below summarizes the area of Waters of the State under the jurisdiction of the CDFG to be impacted by this Project.

**Table 2: Summary of Jurisdictional Waters** 

Authority	Non-wetland Waters of the U.S. (acres)	Vegetated Wetland (acres)	Non-vegetated Wetland (acres)	Riparian Habitat	Total Acres of Jurisdictional Waters
USACE	2,188	349	196	_	2,733
RWQCB	2,188	349	196	_	2,733
CDFG	2,188	349	196	15	2,748

#### REFERENCES

#### 68 FR 1991.

1993. 33 CFR Part 328. Department of Defense, Department of the Army, Corps of Engineers; Advance Notice of Proposed Rulemaking on the Clean Water Act Regulatory Definition of "Waters of the United States." Federal Register, Vol. 68, No. 10.

## Accuweather, Inc. (Accuweather).

2011. Brawley, California Past Month's Weather: Actual Conditions for August 2011. Available at < http://www.accuweather.com/us/ca/brawley/92227/forecast-month.asp?mnyr=8-01-2011&view=table> Accessed September 7, 2011.

Barbour, M.G., J.H. Burk, W.D. Pitts, F.S. Gilliam, and M.W. Schwartz.

1999. Terrestrial Plant Ecology, Third Edition. Addison Wesley Longman, Inc. Menlo Park.

## Bing Maps.

2012. Aerial photography subscription service.

## California Department of Fish and Game (CDFG).

2011. Natural Diversity Database. RareFind Version 3.1.0. Database Query for the Seal Beach, California, USGS 7.5-minute quadrangle. Wildlife and Habitat Data Analysis Branch. Version Dated February 27, 2011.

#### Cardno ENTRIX.

2012. New\_Alamo Q, Rating Curve. Excel spreadsheet.

## Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe.

1979. Classification of Wetland and Deep Water Habitats of the United States. Performed for Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C.

## Division of Safety of Dams (DSOD).

2012. Information Memo #2. Salton Sea SCH.

### Ducks Unlimited.

2012. Topographic mapping GIS data.

## Federal Emergency Management Agency (FEMA).

2008. Federal Insurance Rate Map (FIRM): Imperial County, California, and Incorporated Areas. Map numbers 06025C0725C and 06025C1000C. Effective date September 26, 2008.

#### Google.

2011. Google Earth. Version 6.0.2.2074

#### GretagMacbeth.

2009. Munsell® Soil-Color Charts. Grand Rapids, Michigan.

#### Hickman, J. C., editor.

1993. *The Jepson Manual: Higher Plants of California*. University of California Press, Berkeley and Los Angeles.

## Holland, R. F.

1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. State of California, The Resources Agency, Department of Fish and Game, Natural Heritage Division, Sacramento, California.

## National Oceanic and Atmospheric Administration (NOAA).

2009. "Monthly Precipitation Summary Water Year 2009." National Weather Service, California Nevada River Forecast Center.

### National Oceanic and Atmospheric Administration (NOAA).

2010. "Monthly Precipitation Summary Water Year 2010." National Weather Service, California Nevada River Forecast Center.

## National Oceanic and Atmospheric Administration (NOAA).

2011. "Monthly Precipitation Summary Water Year 2011." National Weather Service, California Nevada River Forecast Center.

#### Reed, P.B., Jr.

1988. National list of plant species that occur in wetlands: national summary. U.S. Fish and Wildlife Service Biological Report 88 (24). 244pp.

#### Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens.

2009. A Manual of California Vegetation, Second Edition. CNPS Press. Sacramento, California.

## United States Army Corps of Engineers (USACE).

1982. "Clarification of 'Normal Circumstances' in the Wetland Definition." Regulatory Guidance Letter 82-02. Reference: RGL 82-02. Available at

<a href="http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl82-02.pdf">http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl82-02.pdf</a> (Accessed September 26, 2012).

#### United States Army Corps of Engineers (USACE).

1987. "U.S. Army Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

## United States Army Corps of Engineers (USACE).

2005. "Ordinary High Water Mark Identification." Regulatory Guidance Letter 05-05. Available at <a href="http://www.lrl.usace.army.mil/orf/article.asp?id=2975&MyCategory=1">http://www.lrl.usace.army.mil/orf/article.asp?id=2975&MyCategory=1</a> (Accessed September 26, 2012).

## United States Army Corps of Engineers (USACE).

2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). ERDC/EL TR-08-28. Vicksburg, MS.

- United States Army Corps of Engineers (USACE)/California Natural Resources Agency (Agency). 2011. Salton Sea Species Conservation Habitat Project Draft Environmental Impact Statement/Environmental Impact Report. USACE Application No. SPL-2010-00142-LLC. State Clearinghouse No. 2010061062.
- United States Department of Agriculture (USDA).

  2012. Data regarding WETS Station: Brawley 2 SW, CA1048. Available

  <a href="http://www.wcc.nrcs.usda.gov/ftpref/support/climate/wetlands/ca/06025.txt">http://www.wcc.nrcs.usda.gov/ftpref/support/climate/wetlands/ca/06025.txt</a> (Accessed

<a href="http://www.wcc.nrcs.usda.gov/ftpref/support/climate/wetlands/ca/06025.txt">http://www.wcc.nrcs.usda.gov/ftpref/support/climate/wetlands/ca/06025.txt</a> (Accessed September 26, 2012)

- United States Department of Agriculture National Resource Conservation Service (USDA-NRCS). 2009. Web Soil Survey. Available at <a href="http://websoilsurvey.nrcs.usda.gov/app/">http://websoilsurvey.nrcs.usda.gov/app/</a> (Accessed August 24, 2011).
- United States Department of Agriculture National Resource Conservation Service (USDA-NRCS). 2011a. List of Hydric Soils - National List; all states.
- United States Department of Agriculture National Resource Conservation Service (USDA-NRCS). 2011b. Plants Database. Available at <a href="http://plants.usda.gov/index.html">http://plants.usda.gov/index.html</a> (Accessed September 7, 2011)
- United States Fish and Wildlife Service (USFWS).
  - 2011. Wetlands Mapper. Available at <a href="http://www.fws.gov/wetlands/Data/Mapper.html">http://www.fws.gov/wetlands/Data/Mapper.html</a> (Accessed August 24, 2011)
- United States Geological Survey (USGS).

2010. "10254005 Salton Sea near Westmorland, CA." Water-Data Report 2009.

- United States Geological Survey (USGS).
  - 2011a. The National Map Viewer. Available online at < http://nationalmap.gov/viewers.html> (Accessed on August 24, 2011)
- United States Geological Survey (USGS).

2011b. "10254005 Salton Sea near Westmorland, CA." Water-Data Report 2010.

- United States Geological Survey (USGS).
  - 2012a. "10254005 Salton Sea near Westmorland, CA." Water-Data Report 2011.
- United States Geological Survey (USGS).
  - 2012b. "10255550 New River near Westmorland, CA." Water-Data Report 2011.

INTENTIONALLY LEFT BLANK

## **APPENDIX A – SITE PHOTOGRAPHS**



H A M B E R S G R O U

## **SITE PHOTOGRAPHS**



Photo 1: Overview of eastern shores of the Salton Sea facing North.



Photo 2: Overview of southern portion Salton Sea where numerous emerging shrubs are present within the surface soil cracks.



Photo 3: Overview of Sample Plot 3 facing southeast.



Photo 4: Overview of Sample Plot 4 facing south.



Photo 5: Overview of Sample Plot 5 facing east.



Photo 6: Overview of Sample Plot 6 facing east.



Photo 7: Overview of Sample Plot 7 and western portion of Project area facing east.



Photo 8: Overview of Sample Plot 8 facing northeast.



Photo 9: Overview of Sample Plot 9 facing southwest.



Photo 10: Overview of Sample Plot 10 and western portion of the Project area facing northeast.



Photo 11: Overview of Sample Plot 11 facing northeast.



Photo 12: Overview of Sample Plot 12 facing southwest.



Photo 13: Overview of Sample Plot 13 facing southeast.



Photo 14: Overview of Sample Plot 18 facing southwest.



Photo 15: Overview of Sample Plot 19 facing northeast.



Photo 16: Overview of Sample Plot 20 and western side of the central peninsula of Project area facing south.



Photo 17: Overview of Sample Plot 21 facing south.



Photo 18: Overview of Sample Plot 22 and disturbed area facing east.



Photo 19: Overview of Sample Plot 23 facing east.



Photo 20: Overview of Sample Plot 24 facing north.



Photo 21: Overview of Drainage 5 and associated vegetation facing southwest.



Photo 22: Overview of Drainage 8 facing southeast.



Photo 23: Overview of Drainage 9 facing southeast.



Photo 24: Overview of Drainage 10 facing southeast.



Photo 25: Overview of Drainage 11 facing southeast.



Photo 26: Overview of Drainage 12 facing west.



Photo 27: Overview of Drainage 13 facing west.



Photo 28: Overview of Drainage 14 facing west.



Photo 29: Overview of the disturbed area at Drainage 17 facing southwest.



Photo 30: Overview of Drainage 20 facing south with the existing Pellet Road transmission line visible to the east of the road.



Photo 31: Overview of Drainage 21 facing north with the existing Pellet Road transmission line visible to the west of the road.



Photo 32: Overview of Drainage 22 facing east.



Photo 33: Overview of Drainage 23 facing northwest.



Photo 34: Overview of Drainage 24 facing east.



Photo 35: Overview of Drainage 25 facing east.



Photo 36: Overview of Drainage 26 facing northwest.

## APPENDIX B – WETLAND DETERMINATION DATA FORMS – ARID WEST REGION

Project/Site: Salton Sea SCH Project	City/Cou	nty: Imperial		Sampling Da	ate: 4-11-12	2
Applicant/Owner: CDFG			State:CA	Sampling Po	oint: SP-A	
Investigator(s): Vipul Joshi	Section,	Township, Ran	nge: 24/12S/12E			
Landform (hillslope, terrace, etc.): terrace	Local re	lief (concave, c	onvex, none): none		Slope (%):	0-1
Subregion (LRR):D - Interior Deserts La	t: 33.104981		Long:115.667703	1	Datum:NAI	83
Soil Map Unit Name: Holtville Silty Clay, Wet			NWI clas	ssification: N/A		
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes	No (	(If no, explain	in Remarks.)		
	cantly disturbed	9	Normal Circumstance	es" present? Yes	s ( No	
	ally problematic		eded, explain any an		_	
SUMMARY OF FINDINGS - Attach site map show	•	•				, etc.
Hydrophytic Vegetation Present? Yes No (•						
Hydric Soil Present? Yes No		the Sampled	Area			
Wetland Hydrology Present? Yes No		ithin a Wetlan		○ No ●		
Remarks: Historical agricultural area. Hummocks and de					ng point is	on
outer edge of depressional area, adjacent to the	roadway.					
VEGETATION						
Abso	oluto Domina	at Indicator	Dominance Test v	vorkoboot:		
	over Species	nt Indicator ? Status	Number of Domina			
1.			That Are OBL, FAC		0	(A)
2.			Total Number of Do	ominant		
3			Species Across All		0	(B)
4			Percent of Domina	nt Species		
Total Cover: Sapling/Shrub Stratum	%		That Are OBL, FAC	CW, or FAC:	0 %	(A/B)
1.			Prevalence Index	worksheet:		
2.			Total % Cover	of: Mı	ultiply by:	_
3.			OBL species	x 1 =	0	
4.			FACW species	x 2 =	0	
5			FAC species	x 3 =	0	
Total Cover: Herb Stratum	%		FACU species	x 4 =	0	
1.			UPL species	x 5 =	0	(D)
2.	<del></del>		Column Totals:	(A)	0	(B)
3.			Prevalence Ir	ndex = B/A =		
4.			Hydrophytic Vege	tation Indicators	:	
5.			Dominance Te	st is >50%		
6.			Prevalence Inc			
7.				Adaptations <sup>1</sup> (Pro narks or on a sepa		ing
8.				ydrophytic Vegeta		n)
Woody Vine Stratum	%			, a. op, a.o v ogota	(2,10,10,11	,
1.			<sup>1</sup> Indicators of hydri	ic soil and wetlan	d hydrology	must
2.			be present.			
Total Cover:	%		Hydrophytic			
% Bare Ground in Herb Stratum % % Cover of Bi	iotic Crust	%	Vegetation Present?	Yes N	0 (	
Remarks: No vegetation present. Perhaps soils are too sa					- 0	
130 vegetation present. Femaps sons are too sa	any and/or co	impacieu io al	now vegetation to	giow.		
I						

SOIL Sampling Point: SP-A

Depth	Matrix			x Feature		1 - 2	T4 3	D 1
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-8	10 YR 4/4	100 5	Y 7/1	5		M	clay	5 Y 7/1 appear as streaks
8-x	-							highly compacted clay
	_					-		
								_
	-							
	Concentration, D=Dep res: Clay, Silty Clay, S					-	RC=Root Channe am, Silty Clay Loa	l, M=Matrix. am, Silt Loam, Silt, Loamy Sand, Sa
	Indicators: (Applicab							r Problematic Hydric Soils:
Histoso	ol (A1)		Sandy Redo	ox (S5)			1 cm Mu	ıck (A9) ( <b>LRR C</b> )
	Epipedon (A2)		Stripped M	, ,				ıck (A10) ( <b>LRR B</b> )
	Histic (A3)		Loamy Mu	-	. ,			d Vertic (F18)
	gen Sulfide (A4)		Loamy Gle					ent Material (TF2)
	ed Layers (A5) ( <b>LRR (</b>	<b>C</b> )	Depleted N	, ,			Other (E	explain in Remarks)
1	fuck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	ed Below Dark Surfac	e (A11)	Depleted D		. ,			
1	Dark Surface (A12)		Redox Dep		(F8)			
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				f hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)						wetland h	ydrology must be present.
estrictive	Layer (if present):							
Type:								
Depth (ii	nches):						Hydric Soil F	Present? Yes No  No
emarks:							, , , , , ,	resont: res / no o
	nev						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10301111
DROLO								
/DROLO	ydrology Indicators:		ent)				Second	ary Indicators (2 or more required)
/DROLO	ydrology Indicators: licators (any one indic		,	t (B11)			Second	ary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> )
/DROLO /etland Hy rimary Ind	ydrology Indicators: licators (any one indic e Water (A1)		Salt Crus				Second Wa	ary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
OROLO Vetland Hyrimary Ind Surface High W	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2)		Salt Crus	ıst (B12)	oe (P12)		Second Wa See	lary Indicators (2 or more required) Iter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine)
YDROLO Vetland Hy Irimary Ind Surface High W Saturat	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2) tion (A3)	ator is sufficie	Salt Crus Biotic Cru Aquatic Ir	ıst (B12) nvertebrate	` ,		Second Wa Se Dri Dri	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Interior (B10)
/DROLO /etland Hyrimary Ind Surface High W Satural Water	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver	ator is sufficie	Salt Crus Biotic Cru Aquatic Ir Hydrogen	ust (B12) nvertebrate n Sulfide O	dor (C1)	li in P	Second Wa Second Dri Dri Dra	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Ininage Patterns (B10) Ininage Pa
YDROLO Vetland Hy rimary Ind Surface High W Saturat Water I Sedime	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No	ator is sufficie ine) nriverine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized	ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along		Second Wa Second Dri Dri Dry oots (C3)	ary Indicators (2 or more required) Iter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Isinage Patterns (B10) It-Season Water Table (C2) In Muck Surface (C7)
YDROLO Vetland Hy rimary Ind Surface High W Saturat Water I Sedime	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No	ator is sufficie ine) nriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce	edor (C1) eres along ed Iron (C	4)	Second Wa Second Dri Dri Dry oots (C3) Thi	ary Indicators (2 or more required)  Inter Marks (B1) (Riverine)  Idiment Deposits (B2) (Riverine)  If Deposits (B3) (Riverine)  Ininage Patterns (B10)  In-Season Water Table (C2)  In Muck Surface (C7)  Interpretation of the control of the contro
/DROLO /etland Hy rimary Ind Surface High W Satural Water I Sedime Drift De	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Noeposits (B3) (Nonriverent Soil Cracks (B6)	ator is sufficie ine) nriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dro   Dro   Cra   Cra   Cra   Cra   Sa   Sa   Sa   Sa   Sa   Sa   Sa	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (C
YDROLO Vetland Hyrimary Ind Surface High W Saturat Water I Sedime Drift De	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Deposits (B3) (Nonriverent Caracks (B6)) tion Visible on Aerial I	ator is sufficie ine) nriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dro   Dro   Cra   Cra   Cra   Cra   Sa   Sa   Sa   Sa   Sa   Sa   Sa	ary Indicators (2 or more required)  Inter Marks (B1) (Riverine)  Idiment Deposits (B2) (Riverine)  If Deposits (B3) (Riverine)  Ininage Patterns (B10)  In-Season Water Table (C2)  In Muck Surface (C7)  Interpretation of the control of the contro
YDROLO Vetland Hyrimary Ind Surface High W Saturat Water I Sedime Drift De	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Noeposits (B3) (Nonriverent Soil Cracks (B6)	ator is sufficie ine) nriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dry   Otts (C3)   Thi   Cra   C6   Sa'   Sh.	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (C
YDROLO Vetland Hy rimary Ind Surface High W Satural Water I Sedime Drift De Surface Inunda Water-	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9)	ator is sufficie ine) nriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dry   Otts (C3)   Thi   Cra   C6   Sa'   Sh.	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idimage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Vetland Hyrimary Ind Surface High W Saturat Water I Sedime Drift De Surface Ununda Water-i	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9)	ine) nriverine) rine) magery (B7)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduct xplain in Re	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dry   Otts (C3)   Thi   Cra   C6   Sa'   Sh.	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idimage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLO Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inunda Water-I Gield Obse	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Deposits (B3) (Nonriverent Deposits (B6)) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present?	ine) nriverine) rine) magery (B7)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Irc Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct splain in Re	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dry   Otts (C3)   Thi   Cra   C6   Sa'   Sh.	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idimage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (Callow Aquitard (D3)
Vetland Hyrimary Ind Surface High W Satural Sedime Surface Inunda Water- Water- Water Table Water Table	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present?  yee Present?  yee Present?	ine) nriverine) rine) magery (B7)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct xplain in Re nches):	edor (C1) eres along ed Iron (Co ion in Ploy	4)	Second   Wa   Se   Dri   Dry   Otts (C3)   Thi   Cra   C6   Sa'   Sh.	lary Indicators (2 or more required) Inter Marks (B1) ( <b>Riverine</b> ) Idiment Deposits (B2) ( <b>Riverine</b> ) Ift Deposits (B3) ( <b>Riverine</b> ) Idimage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLO Vetland Hy Primary Ind Surface High W Saturat Sedime Surface Inunda Water- ield Obse Surface Water Table Staturation Includes ca	ydrology Indicators: licators (any one indicated water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Deposits (B3) (Nonriverent Deposits (B6)) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  pupillary fringe)	ine) nriverine) magery (B7)  es Notes Notes Notes Notes Notes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct cplain in Re nches): nches):	dor (C1) eres along ed Iron (Ci ion in Plov emarks)	4) ved Soils Wet	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idimant Deposits (B3) (Riverine) Idimant Deposits (B10) Idiman
YDROLO Vetland Hy Primary Ind Surface High W Saturat Sedime Surface Inunda Water- Gurface Water Table Saturation Includes ca	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver ent Deposits (B3) (Nonriver ent Deposits (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present?  Y Present?  Y	ine) nriverine) magery (B7)  es	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct cplain in Re nches): nches):	dor (C1) eres along ed Iron (Ci ion in Plov emarks)	4) ved Soils Wet	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idimant Deposits (B3) (Riverine) Idimant Deposits (B10) Idiman
Primary Ind Surface High W Saturat Water I Sedime Surface Inunda Water Field Obse Surface Water Table Saturation I includes ca	ydrology Indicators: licators (any one indicated water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Deposits (B3) (Nonriverent Deposits (B6)) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  pupillary fringe)	ine) nriverine) magery (B7)  es	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct cplain in Re nches): nches):	dor (C1) eres along ed Iron (Ci ion in Plov emarks)	4) ved Soils Wet	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	ary Indicators (2 or more required) Iter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Isinage Patterns (B10) Ir-Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) Iteration Visible on Aerial Imagery (Callow Aquitard (D3) Iteration C-Neutral Test (D5)
YDROLO Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inunda Water-s Field Obse Surface Wa Vater Table Saturation I includes ca	ydrology Indicators: licators (any one indicated water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverent Deposits (B2) (Nonriverent Deposits (B3) (Nonriverent Deposits (B6)) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  pupillary fringe)	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, moni	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct con Reduct cplain in Re nches): nches): photos, pi	dor (C1) eres along ed Iron (C- ion in Plov emarks)	wed Soils  Wet spections)	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idimant Deposits (B3) (Riverine) Idimant Deposits (B10) Idiman
YDROLO Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inunda Water-s Field Obse Surface Wa Vater Table Saturation I Sincludes ca	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  yapillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, moni	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct con Reduct cplain in Re nches): nches): photos, pi	dor (C1) eres along ed Iron (C- ion in Plov emarks)	wed Soils  Wet spections)	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	ary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
YDROLO Vetland Hy rimary Ind Surface High W Saturat Water I Surface Inunda Water-sield Obse Surface Water Table	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  yapillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, moni	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct con Reduct cplain in Re nches): nches): photos, pi	dor (C1) eres along ed Iron (C- ion in Plov emarks)	wed Soils  Wet spections)	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	ary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Vetland Hyrimary Ind Surface High W Saturat Water I Surface Inunda Water-i ield Obse	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  yapillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, moni	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct con Reduct cplain in Re nches): nches): photos, pi	dor (C1) eres along ed Iron (C- ion in Plov emarks)	wed Soils  Wet spections)	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	ary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
/DROLO /etland Hyrimary Ind Surface High W Saturat Water I Surface Unification Is a surface Water Table atturation Is a surface water Table atturation Is a surface water Surface water Table atturation Is a surface water Table	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) ervations: ater Present? Present? Present?  yapillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7)  es	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct con Reduct cplain in Re nches): nches): photos, pi	dor (C1) eres along ed Iron (C- ion in Plov emarks)	wed Soils  Wet spections)	Second Wa Se Dri Dra Dry Oots (C3) Thi Cra (C6) Sa FA	ary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Salton Sea SCH Project		City/County	: Imperial		Sampling Date:	4-11-12
Applicant/Owner: CDFG				State:CA	Sampling Point:	SP-B
Investigator(s): Vipul Joshi		Section, To	wnship, Rar	nge: 24/12S/12E		
Landform (hillslope, terrace, etc.): terrace		Local relief	(concave, c	convex, none): none	SI	ope (%): 0-1
Subregion (LRR):D - Interior Deserts	Lat: 33.	104929		Long:-115.667638	 Dat	um:NAD 83
Soil Map Unit Name: Holtville Silty Clay, Wet				NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for thi	s time of ve	ar? Yes 🕡	No (	(If no, explain in R	Remarks.)	
	significantly		_	Normal Circumstances" ¡	present? Yes	No (
	naturally pro			eded, explain any answe		
SUMMARY OF FINDINGS - Attach site map						eatures, etc.
Hydrophytic Vegetation Present? Yes ( N	lo 📵					
	lo 🔘	ls th	e Sampled	Area		
	lo 🔵		in a Wetlan		No (	
Remarks: Historical agricultural area. Hummocks at outer edge of depressional area, adjacent to	o the roady	way but sli	ightly lowe	rea. Remnant tile dra er than SP-A. Lack o	ins. Sampling j f vegetation ma	
high soil salinity and therefore area is cons	sidered a v	vetiana, de	espite fack	or nydropnytic vegeta	LIOII.	
VEGETATION						
	Absolute	Dominant		Dominance Test work	sheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant S		
1				That Are OBL, FACW,	or FAC:	$0 \qquad (A)$
3.				Total Number of Domin Species Across All Stra		(B)
4.				Percent of Dominant S	pecies	
Total Cove Sapling/Shrub Stratum	er: %			That Are OBL, FACW,		0 % (A/B)
1.				Prevalence Index wor	ksheet:	
2.				Total % Cover of:	Multip	oly by:
3.				OBL species	x 1 =	0
4.				FACW species	x 2 =	0
5.				FAC species	x 3 =	0
Total Cove	r: %			FACU species	x 4 =	0
Herb Stratum				UPL species	x 5 =	0
1.				Column Totals:	(A)	0 (B)
2.				Prevalence Index	c = B/A =	
4.				Hydrophytic Vegetation		
5.				Dominance Test is		
6.				Prevalence Index i	is ≤3.0 <sup>1</sup>	
7.				Morphological Ada	ptations¹ (Provide	e supporting
8.					s or on a separat	
Total Cove	r: %			Problematic Hydro	phytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum	70			4		
1				<sup>1</sup> Indicators of hydric so be present.	oil and wetland h	ydrology must
2Total Cove	r: %			Hydrophytic		
				Vegetation		
	r of Biotic C		<u>%</u>		s No (	•)
Remarks: No vegetation present. Perhaps soils are	too salty to	allow veg	getation to	grow.		

SOIL Sampling Point: SP-B

1	cription: (Describe	to the dep				or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	10 YR 4/3		2.5 YR 3/6	5	RM	<u>M</u>	clay	salt crusts, cracked soils
	-							
	-							
	-							
								-
1	Concentration, D=Depl					-	RC=Root Channel,	
					andy Loan	n, Clay Loa		m, Silt Loam, Silt, Loamy Sand, Sand.
1 -	Indicators: (Applicabl	e to all LR	·	-				Problematic Hydric Soils:
Histoso	Epipedon (A2)		Sandy Redo Stripped Ma	, ,				k (A9) ( <b>LRR C</b> ) k (A10) ( <b>LRR B</b> )
	Histic (A3)		Loamy Muc	` '				Vertic (F18)
	en Sulfide (A4)		Loamy Gley	-				nt Material (TF2)
	ed Layers (A5) ( <b>LRR C</b>	;)	Depleted M				Other (Ex	plain in Remarks)
	luck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	e (F6)			
	ed Below Dark Surface	e (A11)	Depleted D					
	Dark Surface (A12)		Redox Dep		(F8)		41	
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	s (F9)				hydrophytic vegetation and drology must be present.
	Layer (if present):						wettarid fry	drology must be present.
Type:	Layer (ii present).							
Depth (ir	achee).						Hydric Soil Pr	esent? Yes 📵 No 🦳
Remarks:							Tryunc don't i	esent: 163 (C)
remarks.								
HYDROLO	OGY							
Wetland Hy	ydrology Indicators:						Seconda	ry Indicators (2 or more required)
Primary Ind	icators (any one indica	ator is suff	icient)				Wat	er Marks (B1) (Riverine)
Surface	e Water (A1)		X Salt Crust	(B11)			Sed	ment Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Crus	st (B12)			Drift	Deposits (B3) (Riverine)
Saturat	tion (A3)		Aquatic In	vertebrat	tes (B13)		Drai	nage Patterns (B10)
Water I	Marks (B1) ( <b>Nonriveri</b>	ne)	Hydrogen	Sulfide (	Odor (C1)		Dry-	Season Water Table (C2)
Sedime	ent Deposits (B2) (Nor	riverine)	X Oxidized F	Rhizosph	eres along	Living Ro	ots (C3) Thin	Muck Surface (C7)
🗀	eposits (B3) (Nonriver	ine)			ced Iron (C	,		fish Burrows (C8)
	e Soil Cracks (B6)				tion in Plo	wed Soils (		ration Visible on Aerial Imagery (C9)
	tion Visible on Aerial I	magery (B	7) Other (Exp	olain in R	Remarks)			low Aquitard (D3)
	Stained Leaves (B9)						FAC	-Neutral Test (D5)
Field Obse								
			No   Depth (in	· —				
Water Table	e Present? Yo	es 🔘	No   Depth (in	ches):				
Saturation F		es 🔘	No   Depth (in	ches):		Wet	land Hydrology P	resent? Yes   No
	apillary fringe) ecorded Data (stream	naune m	onitoring well aerial	nhotos r	revious in			resent? Tes ( No (
Describe 14	coorded Data (Stream	gaage, m	ormorning wen, deridi	priot00, p	710410410 1111	5pcotion 15),	, ii avaliabic.	
Domarke: C	-14 amagta ana a anana	41			ا سامناس م			an in diagton of hadrals are
Nemarks. 5	an crusts are comm	ion in the	e region; nowever	oxidized	ı mızospi	ieres are	considered to be	an indicator of hydrology.
US Army Corr	os of Engineers							

Project/Site: Salton Sea SCH Project	C	ity/County: Imperi	ial	Sampling Date:	4-11-12
Applicant/Owner: CDFG			State:CA	Sampling Point:	SP-C
nvestigator(s): Vipul Joshi	S	ection, Township,	 Range: 24/12S/12E	-	
andform (hillslope, terrace, etc.): terrace		ocal relief (concav	e, convex, none): none	Slo	pe (%): 0-1
Subregion (LRR):D - Interior Deserts	Lat: 33.10	04484	Long:-115.672707		ım:NAD 83
Soil Map Unit Name: Meloland and Holtville Loams			0 NWI classifi		
Are climatic / hydrologic conditions on the site typical for		r? Yes 🕟 No	(If no, explain in I		
Are Vegetation $\boxed{\mathbf{X}}$ Soil $\boxed{\mathbf{X}}$ or Hydrology $\boxed{\mathbf{X}}$	significantly di		re "Normal Circumstances"	,	No 🔘
					110
Are Vegetation Soil or Hydrology	naturally prob		needed, explain any answ		
SUMMARY OF FINDINGS - Attach site ma	ap showing s	sampling point	t locations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes	No 💿				
Hydric Soil Present? Yes	No (	Is the Samp	led Area		
Wetland Hydrology Present? Yes	No 🕟	within a Wet	_	No (•)	
Remarks: Historical agricultural area. Mostly flat	t and unvegetat				
/EGETATION		Dominant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Use scientific names.)  1.		Species? Status	Number of Dominant S That Are OBL, FACW,		(A)
2. 3.			Total Number of Domi Species Across All Str		(B)
4			— Percent of Dominant S	pecies	
Total C Sapling/Shrub Stratum	over: %		That Are OBL, FACW,		) % (A/B)
1.			Prevalence Index wo	rksheet:	
2.			Total % Cover of:	Multip	y by:
3.			OBL species	x 1 =	0
4.			FACW species	x 2 =	0
5.			FAC species	x 3 =	0
Total Co	over: %		FACU species	x 4 =	0
Herb Stratum			UPL species	x 5 =	0
1. 2.			Column Totals:	(A)	0 (B)
3.			Prevalence Inde	< = B/A =	
4.			Hydrophytic Vegetati	on Indicators:	
5.			Dominance Test is		
6.			Prevalence Index	is ≤3.0 <sup>1</sup>	
7.			Morphological Ada		
8.				s or on a separate	
Total Co	over: %		— Problematic Hydro	pnytic Vegetation	(Explain)
Woody Vine Stratum			1 Indicators of budging	oil and watland b	drology must
1			Indicators of hydric s be present.	on and wettand hy	ruiology must
2					
Total Co			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Co	over of Biotic Cru	ust%		s No 🤄	
% Bare Ground in Herb Stratum % Considerable & Considerable				es No (	

SOIL Sampling Point: SP-C

1	cription: (Describe	to the depth n				or confirn	n the absence of i	ndicators.)
Depth (inches)	Matrix Color (moint)	0/		x Features		1002	Toydura 3	Domarka
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	7.5 YR 4/3						sandy clay	
<sup>1</sup> Type: C=C	Concentration, D=Dep	etion, RM=Red	duced Matrix.	<sup>2</sup> Location	: PL=Pore	Lining, R	C=Root Channel, M	
1	•					-		, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicabl	e to all LRRs, ι	unless otherwise	noted.)			Indicators for P	roblematic Hydric Soils:
Histoso	ol (A1)		Sandy Redo	x (S5)			1 cm Muck	(A9) (LRR C)
	Epipedon (A2)		Stripped Ma	, ,				(A10) ( <b>LRR B</b> )
	listic (A3)		Loamy Muc	-			Reduced V	
	en Sulfide (A4)		Loamy Gle		(F2)			t Material (TF2)
	ed Layers (A5) (LRR C	;)	Depleted M Redox Darl	` ,	E6)		Other (Exp	lain in Remarks)
	luck (A9) ( <b>LRR D</b> ) ed Below Dark Surface	- (Δ11)	Depleted D	,	,			
	Park Surface (A12)	, (((1))	Redox Dep					
	Mucky Mineral (S1)		Vernal Poo		-,		⁴Indicators of h	ydrophytic vegetation and
1 📖 -	Gleyed Matrix (S4)						wetland hyd	rology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):		<del>_</del>				Hydric Soil Pre	sent? Yes No
Remarks:								
HYDROLO								
Wetland Hy	drology Indicators:							/ Indicators (2 or more required)
Primary Ind	icators (any one indication	ator is sufficien	t)				Water	Marks (B1) (Riverine)
Surface	e Water (A1)		X Salt Crust	(B11)				nent Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cru	st (B12)			Drift D	Deposits (B3) (Riverine)
	ion (A3)		Aquatic In		,			age Patterns (B10)
	Marks (B1) ( <b>Nonriveri</b>	,	Hydrogen					eason Water Table (C2)
l —	ent Deposits (B2) (Nor		Oxidized I		_	_	` '	Muck Surface (C7)
1 <u></u>	eposits (B3) (Nonriver	ine)	Presence		`	,		sh Burrows (C8)
•••	e Soil Cracks (B6)		Recent Iro			ed Soils (	· —	ation Visible on Aerial Imagery (C9)
🗀	tion Visible on Aerial I	magery (B7)	Other (Ex	olain in Re	marks)			ow Aquitard (D3)
	Stained Leaves (B9)						FAC-I	Neutral Test (D5)
Field Obse		_	_					
Surface Wa	ter Present? Y	es O No (	<ul><li>Depth (in</li></ul>	ches):				
Water Table	e Present? You	es O No (	<ul><li>Depth (in</li></ul>	ches):				
Saturation F		es O No (	<ul><li>Depth (in</li></ul>	ches):		Mod	and Hudralagu Dr	accent? Vac O No O
	apillary fringe) ecorded Data (stream	gauge monito	ring well aerial	nhotos pr	avioue inc		and Hydrology Pro	esent? Yes No •
Describe IX	ecorded Data (Stream	gauge, monito	illig well, aeriai	priotos, pri	evious iris	pections),	ii available.	
Damadaa		21 1 1	G '1 1					
		hydrology.	Soil cracks m	ainly limi	ited to tii	e track d	epressions. Salt	crusts are common throughout
th	e region.							
US Army Corr	os of Engineers							

Project/Site: Salton Sea SCH Project	Ci	ty/County	: Imperial		Samp	oling Date: 4-	11-12	
Applicant/Owner: CDFG				State:CA	Samp	ling Point: SF	'-D	
Investigator(s): Vipul Joshi	S	ection, To	wnship, Ran	ge: 24/12S/12E				
Landform (hillslope, terrace, etc.): terrace	L	ocal relief	(concave, c	onvex, none): none	e	Slope	(%): ()-	-1
Subregion (LRR):D - Interior Deserts Lat	nt: 33.10	)4271		Long:-115.67031	.2	Datum	:NAD	83
Soil Map Unit Name: Indio Loam, Wet				NWI cla	assification: ]	N/A		
Are climatic / hydrologic conditions on the site typical for this time	e of year	? Yes 💿	No 🔘	(If no, explain	n in Remark	s.)		
Are Vegetation Soil or Hydrology Signific	cantly di	sturbed?	Are "N	Normal Circumstand	ces" present	? Yes 💿	No (	0
Are Vegetation Soil or Hydrology natural	ally probl	ematic?	(If nee	eded, explain any a	nswers in R	emarks.)		
SUMMARY OF FINDINGS - Attach site map show	wing s	amplin	g point lo	cations, transe	ects, imp	ortant feat	ures,	etc.
Hydrophytic Vegetation Present? Yes   No   No								
Hydric Soil Present? Yes No		Is th	e Sampled	Area				
Wetland Hydrology Present? Yes No	)		in a Wetland		O N	lo 💿		
Remarks: Previous agricultural area. Mostly flat, unveget	tated ar	ea with	sparse tama	risk.				
VEGETATION								
VEGETATION	aluta D	lominant	Indicator	Daminanaa Taat				
Abso Tree Stratum (Use scientific names.) % Co		ominant Species?	Status	Dominance Test  Number of Domina				
1.Tamarisk ramosissima	5 N	O I	FAC	That Are OBL, FA		0	(	(A)
2.				Total Number of D	)ominant			
3.				Species Across Al		0	(	B)
4				Percent of Domina	ant Species			
Total Cover: : Sapling/Shrub Stratum	5 %			That Are OBL, FA		0	% (/	A/B)
1.			}	Prevalence Index	worksheet	t:		
2.				Total % Cove		Multiply I	oy:	
3.				OBL species		x 1 =	0	
4.		1		FACW species		x 2 =	0	
5.				FAC species	5	x 3 =	15	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
1.				Column Totals:	5	(A)	15	(B)
3.				Prevalence I	Index = B/A	.=	3.00	
4.				Hydrophytic Veg	etation Indi	cators:		
5.				Dominance T				
6.				× Prevalence In	idex is ≤3.0¹			
7.				Morphologica				ng
8.				Problematic H		a separate sl	,	.
Total Cover:	%			i iobiematic i	тушторттушс	vegetation (t	-xpiaiii)	'
Woody Vine Stratum  1.				<sup>1</sup> Indicators of hyd	ric soil and	wetland hvdr	oloav n	nust
2.				be present.		, ,	- 37	
Total Cover:	%			Hydrophytic				
		et	0/	Vegetation Present?	Voc 🕞	No O		
	iolic Ciu		<u>%</u>	F 1636III !	Yes	No 🔘		
Remarks: Tamarisk present as seedlings.								

SOIL Sampling Point: SP-D

Depth	Matrix		Redo	x Features			
(inches)	Color (moist)	% C	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	7.4 YR 4/3	100				sandy clay	
							-
	-						
							-
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion. RM=Red	duced Matrix.	<sup>2</sup> Location: PL=Po	– ——— re Linina. RO	C=Root Channel.	M=Matrix.
					-		n, Silt Loam, Silt, Loamy Sand, Sand.
	Indicators: (Applicabl						Problematic Hydric Soils:
Histoso	٠	- 10 un = 1110, 0	Sandy Redo	•			k (A9) ( <b>LRR C</b> )
	Epipedon (A2)		Stripped M	` '			k (A10) ( <b>LRR B</b> )
	Histic (A3)			cky Mineral (F1)		Reduced	Vertic (F18)
Hydrog	jen Sulfide (A4)			yed Matrix (F2)		Red Pare	nt Material (TF2)
	ed Layers (A5) ( <b>LRR C</b>	;)	Depleted M				plain in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Dar	k Surface (F6)			
	ed Below Dark Surface	e (A11)	Depleted D	ark Surface (F7)			
Thick D	Oark Surface (A12)		Redox Dep	ressions (F8)			
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			nydrophytic vegetation and
	Gleyed Matrix (S4)					wetland hy	drology must be present.
Restrictive	Layer (if present):						
Type:							
Depth (ir	nches):		_			Hydric Soil Pr	esent? Yes No 💿
Remarks:							
HYDROLO	OGY						
	OGY ydrology Indicators:					Seconda	ry Indicators (2 or more required)
Wetland Hy		ator is sufficien	t)				ry Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> )
Wetland Hy Primary Ind	ydrology Indicators:	ator is sufficien		t (B11)		Wate	
Wetland Hy Primary Ind Surface	ydrology Indicators: licators (any one indica	ator is sufficien	,	, ,		Wate	er Marks (B1) (Riverine)
Wetland Hy Primary Ind Surface High W	ydrology Indicators: licators (any one indicate Water (A1) Vater Table (A2)	ator is sufficien	Salt Crust Biotic Cru	st (B12)		Wate	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> )
Wetland Hy Primary Ind Surface High W Saturat	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3)		Salt Crust Biotic Cru Aquatic In	st (B12) evertebrates (B13)		Wate Sedi	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) nage Patterns (B10)
Wetland Hy Primary Ind Surface High W Saturat Water I	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri	ne)	Salt Crust Biotic Cru Aquatic In Hydrogen	st (B12) evertebrates (B13) Sulfide Odor (C1)	a Livina Roo	Wate Sedi Drift Draii Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Primary Ind Surface High W Saturat Water I Sedime	ydrology Indicators: icators (any one indicate water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor	ne) nriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along	_	Wate   Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime	ydrology Indicators: licators (any one indicate water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Norriveri eposits (B3) (Nonriveri	ne) nriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	24)	Wate   Wate   Sedi   Drift   Drain   Dry- ts (C3)   Thin   Cray	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De	ydrology Indicators: licators (any one indicate water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6)	ne) nriverine) iine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo	24)	Wate   Wate   Sedi   Drift   Drain   Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial In	ne) nriverine) iine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) overtebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	24)	Wate   Sedi   Drift   Drain   Dry-   ts (C3)	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9)	ne) nriverine) iine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo	24)	Wate   Sedi   Drift   Drain   Dry-   ts (C3)	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) ervations:	ne) nriverine) ine) magery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)	24)	Wate   Sedi   Drift   Drain   Dry-   ts (C3)	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) irvations: ater Present?	ne) nriverine) rine) magery (B7) es	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex	st (B12) avertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)	24)	Wate   Sedi   Drift   Drain   Dry-   ts (C3)	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) irvations: ater Present?	ne) nriverine) ine) magery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  nches):	24)	Wate   Sedi   Drift   Drain   Dry-   ts (C3)	er Marks (B1) ( <b>Riverine</b> ) ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inundat Water-S Field Obse Surface Water Table Saturation F	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Ye Present? Ye Present? Ye Ye	ne) nriverine) rine) magery (B7) es	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  nches):	(4) wed Soils (C	Wate   Wate   Sedi   Drift   Drain   Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Sedime Drift De X Surface Inundat Water-S Field Obse Surface Water Table Saturation F (includes ca	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: leter Present? Present? Present?  ye apillary fringe)	ne) nriverine) rine) magery (B7) es \ No ( es \ No (	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  nches): nches):	wed Soils (C	Wate   Wate   Sedi   Drift   Drain   Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Sedime Drift De X Surface Inundat Water-S Field Obse Surface Water Table Saturation F (includes ca	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Ye Present? Ye Present? Ye Ye	ne) nriverine) rine) magery (B7) es \ No ( es \ No (	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  nches): nches):	wed Soils (C	Wate   Wate   Sedi   Drift   Drain   Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca	ydrology Indicators: iicators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) irvations: ater Present? e Present?	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators: iicators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) irvations: ater Present? e Present?	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Satu Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Shal Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Shal Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
Primary Ind Surface High W Saturat Water I Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ater Present? Present? Present? Apillary fringe) ecorded Data (stream	ne) nriverine) rine) magery (B7) es \ No ( es \ No ( gauge, monito	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Irc Other (Ex  Depth (in Depth (in Depth (in	st (B12) nvertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo plain in Remarks)  aches): hches): photos, previous in	wed Soils (C	Wate Sedi Sedi Drift Drain Dry- ts (C3) Thin Cray Shal Shal FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)

Project/Site: Salton Sea SCH Project		City/Count	y: Imperial		Sam	pling Date: 4	1-11-12	
Applicant/Owner: CDFG				State:CA	Sam	pling Point: §	SP-E	
Investigator(s): Vipul Joshi		Section, T	ownship, Ra	nge: 24/12S/12E		_		
Landform (hillslope, terrace, etc.): terrace		Local relie	ef (concave,	convex, none): nor	ne	Slo	pe (%): ()	<b>)-</b> 1
Subregion (LRR):D - Interior Deserts	Lat: 33.	104332		Long:-115.6771	88	Datu	m:NAD	83
Soil Map Unit Name: Indio Loam, Wet				NWI cl	assification	N/A		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes (	No (	(If no, explain	in in Remar	ks.)		
Are Vegetation Soil Soil Soil Soil Soil Soil Soil Soil	gnificantly	disturbed?	Are '	"Normal Circumstar	nces" presei	nt? Yes 💿	No	0
Are Vegetation Soil or Hydrology na	aturally pro	oblematic?	(If ne	eeded, explain any a	answers in F	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplir	ng point lo	ocations, trans	ects, imp	ortant fea	atures,	etc.
Hydrophytic Vegetation Present? Yes   No								
	•	ls t	he Sampled	l Area				
Wetland Hydrology Present? Yes No	•	wit	hin a Wetla	nd? Yes		No 💿		
Remarks: Historical agricultural area. Sampling point	t is adjac	ent to unv	egetated d	epression.				
VECETATION								
VEGETATION	Absolute	Dominant	Indicator	Dominance Test	t workshoo			
	% Cover	Species?		Number of Domir				
1.Tamarisk ramosissima	5	Yes	FAC	That Are OBL, FA				(A)
2.				Total Number of I	Dominant			
3				Species Across A		3		(B)
4				Percent of Domin	ant Species	5		
Total Cover: Sapling/Shrub Stratum	5 %			That Are OBL, FA	ACW, or FA	C: 66.	.7 %	(A/B)
1.Atriplex lentiformus	5	Yes	FAC	Prevalence Inde	x workshe	et:		
2.			-	Total % Cove	er of:	Multiply	y by:	_
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species	10	x 3 =	30	
Total Cover: Herb Stratum	5 %			FACU species	5	x 4 =	20	
1-Salsola tragus	5	Yes	FACU	UPL species		x 5 =	0	(D)
2.		- 105		Column Totals:	15	(A)	50	(B)
3.				Prevalence	Index = B/A	A =	3.33	
4.			-	Hydrophytic Veg	getation Inc	licators:	-	
5.				★ Dominance 1				
6.				Prevalence I				
7				Morphologica		ns' (Provide n a separate		ng
8.			-	Problematic			,	)
Total Cover: Woody Vine Stratum	5 %							
1.				<sup>1</sup> Indicators of hyd	dric soil and	wetland hy	drology r	nust
2.				be present.				
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum % % Cover	of Biotic C	Crust	%	Present?	Yes	No C	)	
Remarks: Plants are scattered sparsely within a large	historic	al field ar	ea.					

SOIL Sampling Point: SP-E

Depth	Matrix		Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	10 YR 4/3	100				clay	
	-			· —— ——			
	_			- —— ——			
	_						
Type: C=0	Concentration, D=Dep	letion RM=Re	educed Matrix	<sup>2</sup> Location: PL=Pore	Lining R	C=Root Channel I	
• .	·				-		ı, Silt Loam, Silt, Loamy Sand, Sar
	Indicators: (Applicab				· •		Problematic Hydric Soils:
Histoso		,	Sandy Redo	-			(A9) ( <b>LRR C</b> )
Histic E	Epipedon (A2)		Stripped Ma	atrix (S6)		2 cm Muck	(A10) ( <b>LRR B</b> )
	Histic (A3)			ky Mineral (F1)			/ertic (F18)
	gen Sulfide (A4)			yed Matrix (F2)			t Material (TF2)
	ed Layers (A5) (LRR (	<b>C</b> )	Depleted M	` '		Other (Exp	olain in Remarks)
	luck (A9) ( <b>LRR D</b> ) ed Below Dark Surfac	Δ (Δ11)		Surface (F6) ark Surface (F7)			
	Dark Surface (A12)	c (ATT)		ressions (F8)			
	Mucky Mineral (S1)		Vernal Pool			<sup>4</sup> Indicators of h	ydrophytic vegetation and
	Gleyed Matrix (S4)			` '			Irology must be present.
Restrictive	Layer (if present):						
Type:							
Depth (ii	nches):		_				
						Hydric Soil Pre	sent? Yes No 💿
Remarks:						Hydric Soil Pre	sent? Yes ( No (•)
Remarks:						Hydric Soil Pre	sent? Yes ( No ( )
Remarks:						Hydric Soil Pre	sent? Yes No (•)
	nev.					Hydric Soil Pre	sent? Yes () No (●)
YDROLO							
YDROL(	ydrology Indicators:		-0			Secondar	y Indicators (2 or more required)
YDROL( Vetland Hy	ydrology Indicators: licators (any one indic					Secondar	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> )
YDROL( Wetland Hy Primary Ind	ydrology Indicators: licators (any one indic e Water (A1)		X Salt Crust			Secondar Wate	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> )
YDROLO Vetland Hy Primary Ind Surface High W	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2)		X Salt Crust Biotic Crus	st (B12)		Secondar Wate Sedir Drift	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
YDROLO Wetland Hy Primary Ind Surface High W Satura	ydrology Indicators: licators (any one indic e Water (A1) /ater Table (A2) tion (A3)	ator is sufficie	Salt Crust Biotic Crust Aquatic In	st (B12) vertebrates (B13)		Secondar Wate Sedir Drift I	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
YDROLO Wetland Heart Primary Ind Surface High W Satural Water	ydrology Indicators: icators (any one indic e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver	ator is sufficientiation	Salt Crust     Biotic Crust     Aquatic In     Hydrogen	st (B12) vertebrates (B13) Sulfide Odor (C1)	Living Do	Secondar Wate Sedir Drift I	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water Sedime	ydrology Indicators: icators (any one indic e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri ent Deposits (B2) (No	ator is sufficientine) ine) nriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along	-	Secondar Wate Sedir Drift I Drain Dry-S	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7)
YDROLO Wetland Hy Primary Ind Surface High W Satura Water Sedime	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver)	ator is sufficientine) ine) nriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	4)	Secondar Wate Sedir Drift I Dry-S ots (C3) Thin Crayl	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8)
YDROLO Wetland Hy Primary Ind Surface High W Satural Water Sedime Drift De	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ent Deposits (B2) (None eposits (B3) (Nonriver ent Soil Cracks (B6)	ator is sufficier ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduced Iron (Con Reduction in Ploy	4)	Secondar   Wate   Sedir   Drift I   Drain   Dry-Sots (C3)   Thin   Crayl	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9
YDROLO Wetland Hy Primary Ind Surface High W Satural Water Sedime Drift De Surface Inunda	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriversent Deposits (B2) (Nonriverse Soil Cracks (B6) tion Visible on Aerial I	ator is sufficier ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C	4)	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) Bish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3)
YDROLO Wetland Hy Primary Ind Surface High W Satural Water Sedime Drift De Surface Inunda Water-	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver ant Deposits (B2) (Nonriver as Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9)	ator is sufficier ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduced Iron (Con Reduction in Ploy	4)	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9
YDROLO Wetland Hy Primary Ind Surface High W Saturar Water Sedime Drift De Surface Inunda Water- Field Obse	ydrology Indicators: icators (any one indice water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (None eposits (B3) (Nonriver) e Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) irvations:	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plovolain in Remarks)	4)	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) Bish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3)
YDROLO Wetland Hy Primary Ind Surface High W Satural Water Sedime Drift De Surface Inunda Water- Field Obse	ydrology Indicators: icators (any one indicate Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver Bent Deposits (B2) (Nonriver Bent Deposits (B3) (Nonriver Bent Deposits (B6)) tion Visible on Aerial I Stained Leaves (B9) irvations: ater Present?	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plov plain in Remarks)	4)	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) Bish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3)
YDROLO Wetland Hy Primary Ind Surface High W Satural Water Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table	ydrology Indicators: icators (any one indicated water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) irvations: ater Present?  Yellogogia Present?	ine) nriverine) rine) magery (B7)  es	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plovolain in Remarks)  ches): ches):	4)	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) Bish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3)
YDROLO  Wetland Hy Primary Ind Surface High W Saturat Sedime Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I	ydrology Indicators: licators (any one indicated water (A1) /ater Table (A2) lition (A3) Marks (B1) (Nonriversent Deposits (B2) (Nonriversent Deposits (B3) (Nonriversent Deposits (B6)) lition Visible on Aerial I Stained Leaves (B9) litrations: later Present? Present?  Y Present?  Y Y	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plovolain in Remarks)  ches): ches):	4) wed Soils (	Secondar Wate Sedir Drift I Dry-S ots (C3) Thin Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Sedime Drift De Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I	ydrology Indicators: icators (any one indicated water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) irvations: ater Present?  Yellogogia Present?	ine) nriverine) rine) magery (B7)  es	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plov plain in Remarks)  ches): ches):	4) ved Soils (	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall   FAC-	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water Sedime Drift De Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I (includes ca	ydrology Indicators: licators (any one indicated water (A1) /ater Table (A2) lition (A3) Marks (B1) (Nonriverset Deposits (B2) (Nonriverset Soil Cracks (B6) lition Visible on Aerial I Stained Leaves (B9) litrations: later Present? Present? Present?  yapillary fringe)	ine) nriverine) rine) magery (B7)  es	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plov plain in Remarks)  ches): ches):	4) ved Soils (	Secondar   Wate   Sedir   Drift   Drain   Dry-Stots (C3)   Thin   Crayl   C6)   Satur   Shall   FAC-	y Indicators (2 or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (CS) bow Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturar Water Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table Saturation I (includes ca	ydrology Indicators: icators (any one indice water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) irvations: ater Present? Present? Y present.	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, monite	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp  Depth (in Depth (in Depth (in	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Ci on Reduction in Plov plain in Remarks)  ches): ches): ches):	4) ved Soils (  Wetl spections),	Secondar Wate Sedir Drift I Drain Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) sish Burrows (C8) ation Visible on Aerial Imagery (C9 DOW Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I (includes ca Describe R	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) lition (A3) Marks (B1) (Nonriver lent Deposits (B2) (Nonriver lent Deposits (B3) (Nonriver lent Deposits (B6) (Nonriver lent Deposits (B6)) lition Visible on Aerial I Stained Leaves (B9) litrations: later Present? Present? Present? Y Present (Stream No evidence of hydrological parts (Stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, monite	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp  Depth (in Depth (in Depth (in	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Ci on Reduction in Plov plain in Remarks)  ches): ches): ches):	4) ved Soils (  Wetl spections),	Secondar Wate Sedir Drift I Drain Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) sish Burrows (C8) ation Visible on Aerial Imagery (C9 DOW Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Sedime Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I (includes ca Describe R	ydrology Indicators: icators (any one indice water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) es Soil Cracks (B6) tion Visible on Aerial I Stained Leaves (B9) irvations: ater Present? Present? Y epillary fringe) ecorded Data (stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, monite	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp  Depth (in Depth (in Depth (in	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Ci on Reduction in Plov plain in Remarks)  ches): ches): ches):	4) ved Soils (  Wetl spections),	Secondar Wate Sedir Drift I Drain Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Beason Water Table (C2) Muck Surface (C7) Bish Burrows (C8) ation Visible on Aerial Imagery (C9 Dow Aquitard (D3) Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Sedime Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I includes ca Describe R	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) lition (A3) Marks (B1) (Nonriver lent Deposits (B2) (Nonriver lent Deposits (B3) (Nonriver lent Deposits (B6) (Nonriver lent Deposits (B6)) lition Visible on Aerial I Stained Leaves (B9) litrations: later Present? Present? Present? Y Present (Stream No evidence of hydrological parts (Stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, monite	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp  Depth (in Depth (in Depth (in	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Ci on Reduction in Plov plain in Remarks)  ches): ches): ches):	4) ved Soils (  Wetl spections),	Secondar Wate Sedir Drift I Drain Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) sish Burrows (C8) ation Visible on Aerial Imagery (C9 DOW Aquitard (D3) Neutral Test (D5)
YDROLO Vetland Hy Primary Ind Surface High W Saturat Vater Sedime Surface Inunda Water- Field Obse Surface Wa Vater Table Saturation I Includes ca Describe R	ydrology Indicators: licators (any one indicate Water (A1) /ater Table (A2) lition (A3) Marks (B1) (Nonriver lent Deposits (B2) (Nonriver lent Deposits (B3) (Nonriver lent Deposits (B6) (Nonriver lent Deposits (B6)) lition Visible on Aerial I Stained Leaves (B9) litrations: later Present? Present? Present? Y Present (Stream No evidence of hydrological parts (Stream	ine) nriverine) rine) magery (B7)  es \ No es \ No gauge, monite	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp  Depth (in Depth (in Depth (in	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Ci on Reduction in Plov plain in Remarks)  ches): ches): ches):	4) ved Soils (  Wetl spections),	Secondar Wate Sedir Drift I Drain Crayl C6) Satur Shall FAC-	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) Muck Surface (C7) sish Burrows (C8) ation Visible on Aerial Imagery (CS DW Aquitard (D3) Neutral Test (D5)

Project/Site: Salton Sea SCH Project		City/County:	Imperial		Sampling Date:	4-11-12
Applicant/Owner: CDFG				State:CA	Sampling Point:	SP-F
nvestigator(s): Vipul Joshi	;	Section, Tow	nship, Range: 2	24/12S/12E	-	
_andform (hillslope, terrace, etc.): terrace		Local relief (	concave, conve	x, none): none	Slo	pe (%): 0-1
Subregion (LRR):D - Interior Deserts	Lat: 33.1	04235	Lon	g:-115.677177		ım:NAD 83
Soil Map Unit Name: Indio Loam, Wet				NWI classific		
Are climatic / hydrologic conditions on the site typical	for this time of ve	ar? Yes	No (	(If no, explain in R		
Are Vegetation $\boxed{\times}$ Soil $\boxed{\times}$ or Hydrology $\boxed{\times}$	significantly			al Circumstances" p	,	No (
					_	110
Are Vegetation Soil or Hydrology	naturally pro			explain any answe		
SUMMARY OF FINDINGS - Attach site r	nap showing	sampling	point locati	ons, transects	, important fe	atures, etc
Hydrophytic Vegetation Present? Yes	No 💿					
Hydric Soil Present? Yes	No 💮	Is the	Sampled Area			
Wetland Hydrology Present? Yes (	No 🔵		n a Wetland?	Yes •	No 🔿	
Remarks: Historical agricultural area with dep	ressions which p	ond follow	ing rain event	. Lack of vegetat	ion may be due	to high soil
/EGETATION						
		Dominant In		ninance Test work	sheet:	
Tree Stratum (Use scientific names.)  1.	<u>% Cover</u> _	Species?		nber of Dominant S t Are OBL, FACW,		) (A)
2			Tota	al Number of Domin	ant	
3			Spe	cies Across All Stra	ita: (	) (B)
4			Per	cent of Dominant S	oecies	
Tota Sapling/Shrub Stratum	I Cover: %			t Are OBL, FACW,		) % (A/B)
1.			Pre	valence Index wor	ksheet:	
2.				Total % Cover of:	Multip	ly by:
3.			OBI	species	x 1 =	0
4.			FAC	CW species	x 2 =	0
5.			FAC	species	x 3 =	0
	Cover: %		FAC	CU species	x 4 =	0
Herb Stratum			UPL	species	x 5 =	0
1.			Colu	umn Totals:	(A)	0 (B
2				Prevalence Index	= R/A =	
3. 4.			Hvo	Irophytic Vegetation	=	
5.				Dominance Test is		
6.				Prevalence Index i		
7.				Morphological Ada	ptations <sup>1</sup> (Provide	supporting
8.					s or on a separate	
	Cover: %			Problematic Hydro	phytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum	%					
1				icators of hydric so present.	il and wetland hy	drology must
2				present.		
Total	Cover: %			lrophytic etation		
	0 (D: :: 0	riet			s No (	
% Bare Ground in Herb Stratum % %	Cover of Biotic Ci	uot	/0   1.10			• /

	cription: (Describe	to the dep				or confirm	n the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
					_ Type_			Remarks
0-18	7.5 YR 4/3	100	2.5 Y 3/6	1		<u>M</u>	clay	
	-							
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix.	<sup>2</sup> Location	n: PL=Por	e Lining, R	RC=Root Channel, M	=Matrix.
1	•					-		Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicabl	e to all LR	Rs, unless otherwise	noted.)			Indicators for Pr	oblematic Hydric Soils:
Histoso	ol (A1)		Sandy Redo	x (S5)			1 cm Muck	(A9) ( <b>LRR C</b> )
	Epipedon (A2)		Stripped Ma	` ,				(A10) ( <b>LRR B</b> )
	listic (A3)		Loamy Muc	-			Reduced Ve	
	en Sulfide (A4)		Loamy Gle					Material (TF2)
	ed Layers (A5) (LRR C	;)					Other (Expl	ain in Remarks)
	luck (A9) ( <b>LRR D</b> ) ed Below Dark Surface	- (Δ11)	Depleted D		` '			
	Park Surface (A12)	(((1))	Redox Dep					
	Mucky Mineral (S1)		Vernal Poo		(. 0)		<sup>4</sup> Indicators of hy	drophytic vegetation and
1 📖 -	Gleyed Matrix (S4)			,				ology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	sent? Yes  No
Remarks:								
HYDROLO	OGY							
Wetland Hy	drology Indicators:						Secondary	Indicators (2 or more required)
Primary Ind	icators (any one indica	ator is suff	icient)				Water	Marks (B1) (Riverine)
Surface	e Water (A1)			(B11)			Sedim	ent Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cru					eposits (B3) (Riverine)
Saturat	ion (A3)		Aquatic In	vertebrate	es (B13)			ige Patterns (B10)
Water I	Marks (B1) ( <b>Nonriveri</b>	ne)	Hydrogen	Sulfide O	dor (C1)		Dry-Se	eason Water Table (C2)
Sedime	ent Deposits (B2) (Nor	nriverine)	Oxidized F	Rhizosphe	eres along	Living Ro	ots (C3) Thin M	luck Surface (C7)
Drift De	eposits (B3) (Nonriver	ine)	Presence	of Reduc	ed Iron (C	4)	Crayfis	sh Burrows (C8)
X Surface	e Soil Cracks (B6)		Recent Iro	n Reduct	ion in Plov	ved Soils (	(C6) Satura	tion Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aerial I	magery (B	(Expose)	olain in R	emarks)		Shallo	w Aquitard (D3)
Water-	Stained Leaves (B9)		_				FAC-N	leutral Test (D5)
Field Obse	rvations:							
Surface Wa	ter Present? You	es 🔘	No   Depth (in	ches):				
Water Table	e Present? Yo	es 🔿	No   Depth (in	ches):				
Saturation F	Present? Y	es 🔿	No   Depth (in	ches):				
	apillary fringe)						land Hydrology Pre	esent? Yes 💿 No 🔘
Describe Re	ecorded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	spections),	, if available:	
Remarks: A	rea is a depression	within a	field adjacent to the	ne New 1	River and	l Salton S	Sea. Does not app	ear to receive flood waters, but
do	oes collect runoff ar	nd clay so	oils likely are easil	y satura	ted result	ing in so	me ponding.	
US Army Corr	os of Engineers							

Landform (hillslope, terrace, etc.): terrace Local Subregion (LRR):D - Interior Deserts Lat: 33.09713 Soil Map Unit Name: Vint Loamy very find sand, Wet  Are climatic / hydrologic conditions on the site typical for this time of year? Yeare Vegetation Soil or Hydrology significantly disturb Are Vegetation Soil or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing samply Hydrophytic Vegetation Present? Yes No  Hydrophytic Vegetation Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Historical agricultural area.	NWI classification: N/A  Tes No (If no, explain in Remarks.)  bed? Are "Normal Circumstances" present? Yes No catic? (If needed, explain any answers in Remarks.)  spling point locations, transects, important features, etc.  Is the Sampled Area  within a Wetland? Yes No   inant Indicator Status  Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Landform (hillslope, terrace, etc.): terrace  Subregion (LRR):D - Interior Deserts  Soil Map Unit Name: Vint Loamy very find sand, Wet  Are climatic / hydrologic conditions on the site typical for this time of year? Yeare Vegetation Soil or Hydrology significantly disturb Are Vegetation Soil or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing same  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Historical agricultural area.	I relief (concave, convex, none): none  Slope (%): 0-1  Slope (%): 0-1  Datum: NAD 83  NWI classification: N/A  Ses No (If no, explain in Remarks.)  bed? Are "Normal Circumstances" present? Yes No catic? (If needed, explain any answers in Remarks.)  spling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland? Yes No   Sinant Indicator cies? Status  Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Subregion (LRR):D - Interior Deserts  Soil Map Unit Name: Vint Loamy very find sand, Wet  Are climatic / hydrologic conditions on the site typical for this time of year? Yeare Vegetation Soil or Hydrology significantly disturb Are Vegetation Soil or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing samply Hydrophytic Vegetation Present? Yes No  Hydrophytic Vegetation Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1.	NWI classification: N/A  Tes No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes No atic? (If needed, explain any answers in Remarks.)  Is the Sampled Area within a Wetland? Yes No   Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  O (B)
Subregion (LRR):D - Interior Deserts  Soil Map Unit Name: Vint Loamy very find sand, Wet  Are climatic / hydrologic conditions on the site typical for this time of year? Yeare Vegetation Soil or Hydrology significantly disturb Are Vegetation Soil or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing samply Hydrophytic Vegetation Present? Yes No  Hydrophytic Vegetation Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1.	NWI classification: N/A  Tes No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes No atic? (If needed, explain any answers in Remarks.)  Is the Sampled Area within a Wetland? Yes No   Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  O (B)
Soil Map Unit Name: Vint Loamy very find sand, Wet  Are climatic / hydrologic conditions on the site typical for this time of year? You have Vegetation Soil or Hydrology significantly disturb have Vegetation Soil or Hydrology naturally problems  SUMMARY OF FINDINGS - Attach site map showing samply hydrophytic Vegetation Present? Yes No Hydrology Present? Yes No Wetland Hydrology Present? Yes No Finding Present?	NWI classification: N/A  Tes No (If no, explain in Remarks.)  bed? Are "Normal Circumstances" present? Yes No catic? (If needed, explain any answers in Remarks.)  spling point locations, transects, important features, etc.  Is the Sampled Area  within a Wetland? Yes No   inant Indicator Status  Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Are climatic / hydrologic conditions on the site typical for this time of year? You have Vegetation Soil or Hydrology asignificantly disturb have Vegetation Soil or Hydrology naturally problema in SUMMARY OF FINDINGS - Attach site map showing same summary of Findings - Attach site map showing same summary of Fi	les No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes No atic? (If needed, explain any answers in Remarks.)  spling point locations, transects, important features, etc.  Is the Sampled Area within a Wetland? Yes No   inant Indicator cies? Status  Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Are Vegetation Soil Or Hydrology Inaturally disturbance Vegetation Soil Or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing sample Hydrophytic Vegetation Present? Yes No  Hydrophytic Vegetation Present? Yes No  Wetland Hydrology Present? Yes No  Tree Stratum (Use scientific names.)  Tree Stratum (Use scientific names.)  Absolute Doming Special Speci	bed? Are "Normal Circumstances" present? Yes No Catic? (If needed, explain any answers in Remarks.)  Ipling point locations, transects, important features, etc  Is the Sampled Area within a Wetland? Yes No   Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Are Vegetation Soil or Hydrology naturally problema  SUMMARY OF FINDINGS - Attach site map showing sample Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Finding No Fi	Is the Sampled Area within a Wetland? Yes No  Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:  Total Number of Dominant Species Company of Dominant Species Across All Strata:
Hydrophytic Vegetation Present? Yes No Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes	Is the Sampled Area within a Wetland?  Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  0 (B)
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1. 2. 3. 4. Total Cover: %	Is the Sampled Area within a Wetland?  Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1. 2. 3. 4.  Total Cover: %	within a Wetland?  Yes No   No   Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC:  Total Number of Dominant  Species Across All Strata:  0 (B)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1. 2. 3. 4.  Total Cover: %	within a Wetland?  Yes No   No   Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC:  Total Number of Dominant  Species Across All Strata:  0 (B)
Wetland Hydrology Present? Yes No Remarks: Historical agricultural area.  VEGETATION  Tree Stratum (Use scientific names.)  1. 2. 3. 4. Total Cover: %	within a Wetland?  Yes No   No   Dominance Test worksheet:  Number of Dominant Species  That Are OBL, FACW, or FAC:  Total Number of Dominant  Species Across All Strata:  0 (B)
VEGETATION  Tree Stratum (Use scientific names.)  1. 2. 3. 4. Total Cover: %	inant Indicator cies? Status Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Tree Stratum (Use scientific names.)  Absolute % Cover Special	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Tree Stratum (Use scientific names.)  Absolute % Cover Special	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Tree Stratum (Use scientific names.)  Absolute % Cover Special	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
Tree Stratum         (Use scientific names.)         % Cover         Special           1.	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
2. 3. 4. Total Cover: %	That Are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 0 (B)
3	Species Across All Strata: 0 (B)
4. Total Cover: %	Species Across All Strata: 0 (B)
Total Cover: %	Demont (D. 1 (O. 1
	—————— Percent of Dominant Species
	That Are OBL, FACW, or FAC: 0 % (A/B)
1.	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x 1 = 0
4.	FACW species x 2 = 0
5.	FAC species x 3 = 0
Total Cover: %	FACU species x 4 = 0
Herb Stratum	UPL species $x = 0$
1	Column Totals: (A) 0 (B
2	Prevalence Index = B/A =
3.	Hydrophytic Vegetation Indicators:
4.	Dominance Test is >50%
5.	Prevalence Index is ≤3.0¹
6. 7.	Morphological Adaptations¹ (Provide supporting
8.	data in Remarks or on a separate sheet)
T-1-1 0	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum	
1.	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
2	be present.
Total Cover: %	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Vegetation % Present? Yes No •
Remarks: Unvegetated with margins of the field supporting approx	

	cription: (Describe	to the depth n			dicator	or confirn	n the absence of in	idicators.)
Depth (inches)	Matrix	0/		x Features	Tune 1	1002	Toyturo 3	Domorks
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	10 YR 4/3						clay	
1	Concentration, D=Depl					-	C=Root Channel, M	
					dy Loam	, Clay Loa		Silt Loam, Silt, Loamy Sand, Sand.
I	Indicators: (Applicabl	e to all LRRs,		-				roblematic Hydric Soils:
Histoso	. ,		Sandy Redo	. ,				(A9) (LRR C)
	Epipedon (A2)		Stripped Ma	` ,	<b>(</b> [1)			(A10) ( <b>LRR B</b> )
1 📖	listic (A3) en Sulfide (A4)		Loamy Muc	-			Reduced Ve	Material (TF2)
	ed Layers (A5) ( <b>LRR C</b>	•)	Depleted M		(1 2)			ain in Remarks)
	luck (A9) ( <b>LRR D</b> )	•)	Redox Dark		-6)		Other (Expi	an in Remarks)
	ed Below Dark Surface	e (A11)	Depleted D	`	,			
	Oark Surface (A12)	( )	Redox Dep					
Sandy	Mucky Mineral (S1)		Vernal Poo		,		⁴Indicators of hy	drophytic vegetation and
1 📖 -	Gleyed Matrix (S4)			` ,			·	rology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	sent? Yes No 💿
	Layers of organic m	atter precent	throughout so	l profile			,	
Tronnantor L	ayers or organic in	atter present	imoughout so	i prome.				
HYDROLO	OGY							
Wetland Hy	ydrology Indicators:						Secondary	Indicators (2 or more required)
		ator io gufficion	.+\					Marks (B1) (Riverine)
	icators (any one indica	ator is sufficier		(D44)				
	e Water (A1)		X Salt Crust	, ,				ent Deposits (B2) (Riverine)
1 <u></u>	ater Table (A2)		Biotic Cru		(5.46)			eposits (B3) (Riverine)
	tion (A3)		·	vertebrates	` '			age Patterns (B10)
	Marks (B1) (Nonriveri	,		Sulfide Od				eason Water Table (C2)
l —	ent Deposits (B2) (Nor			Rhizospher	_	_	` ′ 🗀	Muck Surface (C7)
1 <u></u>	eposits (B3) (Nonriver	rine)		of Reduced	`	,		sh Burrows (C8)
•••	e Soil Cracks (B6)			n Reductio		ed Soils (		tion Visible on Aerial Imagery (C9)
🗀	tion Visible on Aerial I	magery (B7)	Other (Ex	olain in Rer	narks)			w Aquitard (D3)
Water-	Stained Leaves (B9)						FAC-N	leutral Test (D5)
Field Obse	rvations:							
Surface Wa	iter Present? Y	es No	<ul><li>Depth (in</li></ul>	ches):				
Water Table	e Present?	es No	<ul><li>Depth (in</li></ul>	ches):				
Saturation F	Present?	es No		ches):				
(includes ca	apillary fringe)		• • • • • • • • • • • • • • • • • • • •	<i>'</i> ——		Wetl	and Hydrology Pre	esent? Yes O No 💿
Describe Re	ecorded Data (stream	gauge, monito	ring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:N	o evidence of hydro	ology. Salt cr	usts and crack	ed soils ar	e presei	nt in som	e area but may be	historic and are typical of the
	gion.	<i>O</i> ,			1		,	51
US Army Corp	os of Engineers							

Applicant/Owner: CDFG  Investigator(s): Vipul Joshi  Landform (hillslope, terrace, etc.): terrace  Subregion (LRR):D - Interior Deserts  Soil Map Unit Name: Vint Loamy very fine sand, Wet  Are climatic / hydrologic conditions on the site typical for this tir	 Lat: 33.(			State:CA ange: 29/12S/12E convex, none): none	Sampling Point:	
Landform (hillslope, terrace, etc.): terrace  Subregion (LRR):D - Interior Deserts  Loamy Very fine sand, Wet						
Subregion (LRR):D - Interior Deserts  Loamy very fine sand, Wet	Lat: 33.0	Local r	relief (concave,	convex, none): none		
Subregion (LRR):D - Interior Deserts  Loamy very fine sand, Wet	 Lat: 33.0			· · · · · · · · · · · · · · · · · ·	Si	ope (%): 0-1
Soil Map Unit Name: Vint Loamy very fine sand, Wet		)97158	8	Long:-115.745108		um:NAD 83
				NWI classific		
the difficulty fry droing to contain one one typical for this th	me of ve	ar? Ye	s (•) No (			
Are Vegetation X Soil X or Hydrology X sign	ificantly			"Normal Circumstances"	,	No (
						, 140
	ırally pro			eeded, explain any answe		
SUMMARY OF FINDINGS - Attach site map sho	owing	samp	oling point l	ocations, transects	, important fe	eatures, etc
Hydrophytic Vegetation Present? Yes No (						
Hydric Soil Present? Yes No (	~		Is the Sample	d Area		
Wetland Hydrology Present? Yes No (	$\sim$		within a Wetla		No 💿	
Remarks: Historical agricultural area.						
/EGETATION						
	solute	Domin	ant Indicator	Dominance Test work	sheet:	
	Cover	Specie		Number of Dominant S		
1				That Are OBL, FACW,	. =	0 (A)
2				Total Number of Domir	nant	
3				Species Across All Stra	ata:	0 (B)
4				Percent of Dominant S	pecies	
Total Cover: Sapling/Shrub Stratum	%			That Are OBL, FACW,		0 % (A/B)
1.				Prevalence Index wor	rksheet:	
2.				Total % Cover of:		oly by:
3.				OBL species	x 1 =	0
4.				FACW species	x 2 =	0
5.				FAC species	x 3 =	0
Total Cover:	%			FACU species	x 4 =	0
Herb Stratum				UPL species	x 5 =	0
1				Column Totals:	(A)	0 (E
2.				Prevalence Index	, - Β/Λ -	
3.				Hydrophytic Vegetation		
4.				Dominance Test is		
5.				Prevalence Index i		
6. 7.				Morphological Ada		e supportina
8.					s or on a separat	
Total Cover:	0.4			<ul><li>Problematic Hydro</li></ul>	phytic Vegetation	າ¹ (Explain)
Woody Vine Stratum	%					
1				<sup>1</sup> Indicators of hydric so be present.	il and wetland h	ydrology must
2						
Total Cover:	%			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % % Cover of	Biotic C	rust	%		s No (	•
Remarks: Unvegetated with margins of the field suppo	orting a	nnroxi	 mately 50% o	over of Allenrolfea oc	cidentalis	

(inches)	Color (moist)	%	Color (moist)	%Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-18	10 YR 4/3	100				clay	
	-						
	-						
	-						
<u> </u>			and an and Manager	2			
	Concentration, D=Dep				-	RC=Root Channel, M=	матгх. Silt Loam, Silt, Loamy Sand, Sa
	Indicators: (Applicab				Jaili, Clay Luc		blematic Hydric Soils:
Histoso		ne to an LRRS,	Sandy Redo	-		1 cm Muck (A	
	Epipedon (A2)		Stripped M	. ,		2 cm Muck (A	
	listic (A3)			cky Mineral (F1)		Reduced Ver	
	en Sulfide (A4)			yed Matrix (F2)			Material (TF2)
Stratifie	ed Layers (A5) ( <b>LRR</b> (	C)	Depleted M	latrix (F3)		Other (Explai	n in Remarks)
	luck (A9) ( <b>LRR D</b> )			k Surface (F6)		_	
	ed Below Dark Surfac	e (A11)		ark Surface (F7)			
	Park Surface (A12)			ressions (F8)		4	
	Mucky Mineral (S1)		Vernal Poo	ls (F9)		•	rophytic vegetation and
	Gleyed Matrix (S4)					wetiand nydro	logy must be present.
	Layer (if present):						
Type:							
Depth (ir	nches):					Hydric Soil Prese	nt? Yes No 💿
YDROLO	OGY						
	OGY ydrology Indicators:					Secondary li	ndicators (2 or more required)
Vetland Hy			nt)				ndicators (2 or more required) farks (B1) ( <b>Riverine</b> )
<b>Vetland Hy</b> Primary Indi	drology Indicators:		nt)  ▼  Salt Crust	: (B11)		Water N	· · · · · · · · · · · · · · · · · · ·
Vetland Hy Primary Indi	ydrology Indicators: icators (any one indic					Water M	flarks (B1) (Riverine)
Vetland Hy Primary Indi Surface High W	ydrology Indicators: icators (any one indic e Water (A1)		Salt Crust Biotic Cru		3)	Water M Sedimer Drift De	Marks (B1) (Riverine) nt Deposits (B2) (Riverine)
Wetland Hy Primary Ind Surface High W Saturat	ydrology Indicators: icators (any one indic e Water (A1) vater Table (A2)	cator is sufficie	X Salt Crust Biotic Cru Aquatic In	st (B12)	,	Water M Sedimer Drift De	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine)
Vetland Hy Primary Indi Surface High W Saturat Water N	drology Indicators: icators (any one indicate Water (A1) dater Table (A2) icion (A3)	cator is sufficie	Salt Crust Biotic Cru Aquatic In Hydrogen	st (B12) vertebrates (B13	1)	Water M Sedimer Drift De Drainag Dry-Sea	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine)
Vetland Hy Primary Indi Surface High W Saturat Water N Sedime	ydrology Indicators: icators (any one indicated water (A1) rater Table (A2) ion (A3) Warks (B1) (Nonriver	cator is sufficie	X Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	st (B12) vertebrates (B13 Sulfide Odor (C	1) ong Living Ro	Water M Sedimer Drift De Drainag Dry-Sea	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposit (B4) (Riverine) Int
Primary Indi Surface High W Saturat Water N Sedime	ydrology Indicators: icators (any one indice water (A1) fater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No	cator is sufficie	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence	st (B12) overtebrates (B13 Sulfide Odor (C Rhizospheres ald	1) ong Living Ro (C4)	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposit (B4) (Riverine) Int
Primary Indi Surface High W Saturat Water N Sedime Drift De	drology Indicators: icators (any one indicators) water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No	cator is sufficie	X Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	st (B12) overtebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposit (B4) (Riverine) Int
Primary Ind Surface High W Saturat Water N Sedime Drift De	drology Indicators: icators (any one indicated water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (Norriver and Seposits (B3) (Nonriver and Seposits (B6))	cator is sufficie	X Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	flarks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Dep
Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S	drology Indicators: icators (any one indicated water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver Deposits (B2) (Nonriver Soil Cracks (B6) tion Visible on Aerial (Stained Leaves (B9)	cator is sufficie	X Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B4) (Riverine) Int Deposit
Primary Indi Surface High W Saturat Water N Sedime Drift De X Surface Inundat Water-S	ydrology Indicators: icators (any one indice we Water (A1) later Table (A2) icion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	rine) nriverine) rine) Imagery (B7)	X Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	st (B12) Evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in I plain in Remarks	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B4) (Riverine) Int Deposit
Primary Indi Surface High W Saturat Water N Sedime Drift De X Surface Inundat Water-Selid Obse	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver ent Deposits (B3) (Nonriver ent Cracks (B6) dion Visible on Aerial (Stained Leaves (B9) rvations: tter Present?	rine) nriverine) rine) Imagery (B7)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F plain in Remarks aches):	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B4) (Riverine) Int Deposit
Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obset Water Table	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) darks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: deter Present?  Present?  Year	rine) nriverine) rine) Imagery (B7)  Yes \( \) No	Salt Crust   Biotic Cru   Aquatic In   Hydrogen   Oxidized I   Presence   Recent Irc   Other (Ex	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F plain in Remarks etches):	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B4) (Riverine) Int Deposit
Primary Ind Surface High W Saturat Water N Surface Vater-S Field Obset Surface Water Table Saturation F	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) darks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: deter Present?  Present?  Year	rine) nriverine) rine) Imagery (B7)  Yes \( \) No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in I plain in Remarks etches):	1) ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift De Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C8) Int Deposits (C9) Int Dep
Primary Ind Surface High W Saturat Water N Sedime Drift De Mater-S Field Obset Surface Water Table Saturation Fincludes ca	drology Indicators: icators (any one indicators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver ent Cracks (B6) dion Visible on Aerial (Stained Leaves (B9) rvations: deter Present? Present?  Yeresent?	rine) nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex	st (B12) Evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F plain in Remarks suches): suches):	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C8) Int Deposits (C9) Int Dep
Primary Ind Surface High W Saturat Water N Surface Inundat Water-S Field Obse Surface Water Table Saturation F Sincludes ca	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) ent Soil Cracks (B6) dion Visible on Aerial (Stained Leaves (B9) rvations: deter Present? Present? pright indicators: Applications (A1) Applications (A2) Applications (A3) Applic	rine) nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex	st (B12) Evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in F plain in Remarks suches): suches):	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish (C6) Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C8) Int Deposits (C9) Int Dep
Primary Indi Surface High W Saturat Water N Sedime Drift De X Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F Includes ca Describe Re	drology Indicators: icators (any one indicated (any	rine) nriverine) rine) Imagery (B7)  res \ No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex   Depth (in Depth (in Depth (in	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Replain in Remarks etches): etches): photos, previous	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Surface (C7) Int Surface (C3) Int Surface (C3) Int Surface (C4) Int Surface (C5) Int
Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obset Surface Water Table Saturation Fincludes ca Describe Re	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver ent Stained Leaves (B6) dion Visible on Aerial (Stained Leaves (B9)  rvations: der Present? Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (B9)	rine) nriverine) rine) Imagery (B7)  res \ No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex   Depth (in Depth (in Depth (in	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Replain in Remarks etches): etches): photos, previous	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C8) Int Deposits (C9) Int Dep
Primary Ind Surface High W Saturat Water N Sedime Drift De Mater-S Field Obset Surface Water Table Saturation Fincludes ca	drology Indicators: icators (any one indicated (any	rine) nriverine) rine) Imagery (B7)  res \ No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex   Depth (in Depth (in Depth (in	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Replain in Remarks etches): etches): photos, previous	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C2) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Surface (C7) Int Surface (C7) Int Surface (C3) Int Surface (C3) Int Surface (C4) Int Surface (C5) Int S
Primary Ind Surface High W Saturat Water N Sedime Drift De Water-S Grield Obset Surface Water Table Saturation Fincludes ca	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver ent Stained Leaves (B6) dion Visible on Aerial (Stained Leaves (B9)  rvations: der Present? Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (B9)	rine) nriverine) rine) Imagery (B7)  res \ No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex   Depth (in Depth (in oring well, aerial	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Replain in Remarks etches): etches): photos, previous	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C2) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Surface (C7) Int Surface (C7) Int Surface (C7) Int Surface (C3) Int Surface (C3) Int Surface (C4) Int Surface (C5) Int S
Primary Ind Surface High W Saturat Water N Sedime Drift De Water-S Grield Obset Surface Water Table Saturation Fincludes ca	drology Indicators: icators (any one indicators (any one indicators) water (A1) dater Table (A2) dion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver ent Stained Leaves (B6) dion Visible on Aerial (Stained Leaves (B9)  rvations: der Present? Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present? Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (Stained Leaves (B9))  rvations: der Present?  publication Visible on Aerial (B9)	rine) nriverine) rine) Imagery (B7)  'es \ No 'es \ No 'es \ No	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex   Depth (in Depth (in oring well, aerial	st (B12) evertebrates (B13 Sulfide Odor (C Rhizospheres ald of Reduced Iron on Reduction in Replain in Remarks etches): etches): photos, previous	ong Living Ro (C4) Plowed Soils (	Water M Sedimer Drift Der Drainag Dry-Sea ots (C3) Thin Mu Crayfish Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B10) Int Surface (C7) Int Deposits (C2) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Deposits (C3) Int Surface (C7) Int Surface (C7) Int Surface (C7) Int Surface (C3) Int Surface (C3) Int Surface (C4) Int Surface (C5) Int

Project/Site: Salton Sea SCH Project	City/County: Imperia	1	Sampling Date:	8-17-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-01
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>30 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D- Interior Deserts	Lat: 33.104448	Long: -115.7539605	Datun	n: Nad 83
Soil Map Unit Name: Meloland very fine sandy loa		-		
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site m				itures etc
		- Todations, transcots	, important roc	
	No Is the Sample	d Area		
	No ✓ within a Wetla	ind? Yes	No <u>√</u>	
Remarks:				
VEGETATION – Use scientific names of p				
Tree Stratum (Plot size:)	Absolute Dominant Indicator <a href="Mailto:Normalizett">Normalizett</a> <a href="Mailto:Normalizett">Normalize</a>	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,	pecies or FAC: 1	(A)
2.				()
3.		Total Number of Domin Species Across All Stra		(B)
4		Percent of Dominant Sp		
	= Total Cover	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index wor	kshoot:	
1. Allenrolfea occidentalis		Total % Cover of:		hv.
2 3		OBL species		-
4		FACW species		
5.		FAC species		
	= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size:)		UPL species	x 5 =	
1		Column Totals:	(A)	(B)
2		Prevalence Index	= B/A =	
3		Hydrophytic Vegetation		
4.         5.		✓ Dominance Test is		
6.		Prevalence Index is	s ≤3.0 <sup>1</sup>	
7.		Morphological Ada		
8			s or on a separate s	•
	= Total Cover	Problematic Hydro	pnytic vegetation (	Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soi	il and wetland hydro	ology must
1		be present, unless distu		
2	= Total Cover	Hydrophytic		
100		Vegetation	,	
	Cover of Biotic Crust	Present? Ye	s <u>√</u> No	
Remarks:				

Profile Des	cription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	2.5 YR 5/2	100						
2-12	2.5 YR 5/1	90	10 YR 5/6	10	<u>C</u>	<u>M</u>		
Type: C=C	Concentration, D=De	pletion, RM		S=Covere	d or Coate	d Sand Gr	rains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Appli	cable to al	I LRRs, unless other	rwise not	ed.)			for Problematic Hydric Soils <sup>3</sup> :
Black H Hydrogo Stratifie 1 cm M Deplete Thick D Sandy I Sandy (	epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) (LRR uck (A9) (LRR D) ed Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	,	Sandy Redo Stripped Ma Loamy Muc Loamy Gley ✓ Depleted M Redox Dark Depleted Do Redox Depleted Do Vernal Pool	atrix (S6) ky Minera yed Matrix atrix (F3) c Surface ark Surface ressions (	(F2) (F6) ce (F7)		2 cm M Reduc Red P Other 3Indicators wetland	Muck (A9) (LRR C) Muck (A10) (LRR B) ed Vertic (F18) arent Material (TF2) (Explain in Remarks)  of hydrophytic vegetation and hydrology must be present, iisturbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	nches):						Hydric Soil	Present? Yes No✓
conditions	may have been w Therefore, soils o	etter thar		nese feat	ures have	e persiste	d even thoug	I in the recent or distant past when the wetland hydrology may no longer ons.
	/drology Indicators							
			ed; check all that appl	v)			Secon	ndary Indicators (2 or more required)
	e Water (A1)	one require	<u>√</u> Salt Crust					Vater Marks (B1) ( <b>Riverine</b> )
High W	ater Table (A2) ion (A3)		Biotic Crus	st (B12) vertebrate			S D	rediment Deposits (B2) ( <b>Riverine</b> ) prift Deposits (B3) ( <b>Riverine</b> )
Sedime	Marks (B1) ( <b>Nonrive</b> ent Deposits (B2) ( <b>No</b>	onriverine		Rhizosphe	res along	Ū	ots (C3) D	Prainage Patterns (B10) Pry-Season Water Table (C2)
	eposits (B3) (Nonrive	erine)	Presence					crayfish Burrows (C8)
Inundat	e Soil Cracks (B6) tion Visible on Aerial	0 , (	, <u>—</u>	Surface (	(C7)	a Soils (C6	S	raturation Visible on Aerial Imagery (C9)
	Stained Leaves (B9)		Other (Exp	plain in Re	emarks)		F	AC-Neutral Test (D5)
ield Obse			,					
			No ✓ Depth (in					
	Present? pillary fringe)	Yes	No ✓ Depth (in No ✓ Depth (in	ches):		Wetla		y Present? Yes No✓
Jescribe Re	ecorded Data (strear	n gauge, m	nonitoring well, aerial	priotos, pr	evious ins	pections),	ıı avallable:	
Remarks:								_
Γhe hydr	ology indicator	s obser	ved are conside	red reli	c from	previous	s years hyd	drology and not an indicator
•	hydrology.						, , ,	<u> </u>

Project/Site: Salton Sea SCH Project	City/0	County: Imperial		Sampling Date: _	8-18-11
Applicant/Owner: CDFG, CDWR, USACE			State: CA	Sampling Point: _	SP-02
Investigator(s): M. Simmons, I. Watson	Secti	on, Township, Ra	nge: <u>29 / 12S / 12</u> E	E	
Landform (hillslope, terrace, etc.): shoreline	Loca	I relief (concave,	convex, none): conc	cave Slop	oe (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts					
Soil Map Unit Name: Meloland and Holtville loa					
Are climatic / hydrologic conditions on the site typica		,			
Are Vegetation, Soil, or Hydrology _	-			ces" present? Yes <b>✓</b>	' No
Are Vegetation, Soil, or Hydrology _				nswers in Remarks.)	<u> </u>
SUMMARY OF FINDINGS – Attach site					atures, etc
Hydrophytic Vegetation Present? Yes _ ✓	/ No				
		Is the Sampled			
	/No	within a Wetlar	nd? Yes_	No	i
Remarks:					
VEGETATION – Use scientific names o	f plants.				
Torre Otreture (Diet sine)		ninant Indicator	Dominance Test	worksheet:	
Tree Stratum (Plot size:)  1			Number of Domina That Are OBL, FAC		(A)
2. 3.			Total Number of D Species Across All		(B)
4	= To		Percent of Domina	ant Species CW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:	_)				(,,,)
1			Prevalence Index		
2				r of: Multiply	-
3				x 1 = x 2 =	
4.         5.				x 3 =	
- S	= To			x 4 =	
Herb Stratum (Plot size:)			· ·	x 5 =	
1				(A)	
2			Danielana I	nday - D/A -	
3				ndex = B/A =etation Indicators:	
4			Dominance Te		
5			Prevalence Inc		
6				Adaptations <sup>1</sup> (Provide	supporting
7 8			data in Rer	marks or on a separate	sheet)
	= To	otal Cover	✓ Problematic H	lydrophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)  1				ic soil and wetland hydr	
2		tal Cover	Hydrophytic	· ·	
% Bare Ground in Herb Stratum9	% Cover of Biotic Crust _		Vegetation Present?	Yes No	
Remarks:  No vegetation present likely resulting	g from natural fluo	ctuations in t	he water level o	of the Salton Sea	drought

conditions typical of the region, the increasing salinity of the sea water present within the wetland and soils, and the runoff from the surrounding agricultural practices.

Depth	Matrix Color (moist)	%	Color (mo	Redox Fe	0/ +1	Loc <sup>2</sup>	Touture	Domeste
(inches)				ISt)		LOC	<u>Texture</u>	Remarks
0-8			10 YR 5/6		<u>C</u>			
8-14	Gley1 4/N				C			
	-							
	-							
Type: C=C	oncentration, D=De	pletion, RM	=Reduced Ma	trix, CS=C	overed or Coate	ed Sand Gra		ion: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Appli	cable to all	LRRs, unless	s otherwis	se noted.)		Indicators fo	r Problematic Hydric Soils <sup>3</sup> :
Histosol	` '			ly Redox (S				ck (A9) ( <b>LRR C</b> )
	pipedon (A2)			ped Matrix				ck (A10) ( <b>LRR B</b> )
	stic (A3)				Mineral (F1)		_	Vertic (F18)
	n Sulfide (A4)	•			Matrix (F2)		· · · · · · · · · · · · · · · · · · ·	ent Material (TF2)
	d Layers (A5) (LRR	C)		eted Matrix			Other (Ex	kplain in Remarks)
	ick (A9) ( <b>LRR D</b> ) d Below Dark Surfac	co (Δ11)	<del></del>	ox Dark Sur	Surface (F6)			
	ark Surface (A12)	ce (ATT)		x Depress			<sup>3</sup> Indicators of	hydrophytic vegetation and
	fucky Mineral (S1)			al Pools (F				drology must be present,
	Bleyed Matrix (S4)		_		-,		-	urbed or problematic.
Restrictive I	_ayer (if present):							·
Type:								
• • •							Hydric Soil Pi	resent? Yes √ No
Depth (in	ches):						Hydric Soil Pi	resent? Yes <u>√</u> No
Depth (in							Hydric Soil Pi	resent? Yes <u>√</u> No
Depth (ind	ches):						Hydric Soil Pi	resent? Yes <u>√</u> No
Depth (inc	ches):						Hydric Soil Pi	resent? Yes <u>√</u> No
Depth (inc Remarks: YDROLO Wetland Hyd	GY	:		at apply)				resent? Yes ✓ No
Depth (inc Remarks: YDROLO Wetland Hyd Primary India	GY drology Indicators	:	d; check all th	at apply) : Crust (B1	1)		Seconda	
Depth (inc Remarks: YDROLO Wetland Hyde Primary Indic Surface	GY drology Indicators	:	d; check all the		,		Seconda	ary Indicators (2 or more required)
Depth (inc Remarks: YDROLO Wetland Hyd Primary India Surface High Wa	GY drology Indicators eators (minimum of Water (A1) eter Table (A2)	:	d; check all th. ✓ Salt — Biot	: Crust (B1 ic Crust (B	,		Seconda Wat Sed	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> )
Depth (inc Remarks:  YDROLO  Wetland Hyd  Primary India  Surface  High Wa  ✓ Saturatio	GY drology Indicators eators (minimum of Water (A1) eter Table (A2)	: one require	d; check all th ✓ Salt — Biot ✓ Aqu	: Crust (B1 ic Crust (B latic Inverte	312)		Seconda  Wat Sed Drift	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> )
Depth (inc Remarks:  YDROLO  Wetland Hyde  Primary Indic  Surface  High Wat  Saturatic  Water M	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3)	: one require	d; check all th ✓ Salt — Biot ✓ Aqu — Hyc — Oxi	: Crust (B1 ic Crust (B latic Inverte lrogen Sulf dized Rhize	ebrates (B13) fide Odor (C1) ospheres along	_	Seconda Wat Sed Driff Drai	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) : Deposits (B3) (Riverine)
Depth (inc Remarks:    YDROLO	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) larks (B1) (Nonrive	: one require rine) onriverine)	d; check all th ✓ Salt — Biot ✓ Aqu — Hyc — Oxi	: Crust (B1 ic Crust (B latic Inverte lrogen Sulf dized Rhize	B12) ebrates (B13) fide Odor (C1)	_	Seconda Wat Sed Driff Draits (C3) Dry-	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10)
Depth (inc Remarks:   YDROLO    Wetland Hydeleter	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No	: one require rine) onriverine)	d; check all th.  ✓ Sall  — Biot  ✓ Aqu  — Hyc  — Oxi  — Pre — Rec	Crust (B1 cic Crust (B latic Inverte lrogen Sulf dized Rhize sence of R cent Iron Re	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille	4)	Seconda Wat Sed Driff Draits (C3) Dry- Cra	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) c Deposits (B3) (Riverine) inage Patterns (B10) cSeason Water Table (C2)
Depth (inc Remarks:    YDROLO	GY drology Indicators eators (minimum of Water (A1) hter Table (A2) on (A3) arks (B1) (Nonrive ht Deposits (B2) (No	: one require rine) onriverine)	d; check all th.	: Crust (B1 cic Crust (B latic Inverted lrogen Sulf dized Rhize sence of R cent Iron Re n Muck Sur	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7)	4)	Seconda	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Depth (inception of the property of the proper	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No	: one require rine) onriverine)	d; check all th.	: Crust (B1 cic Crust (B latic Inverted lrogen Sulf dized Rhize sence of R cent Iron Re n Muck Sur	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille	4)	Seconda Wat Sed Driff Draits (C3) Dry- Craits (C3) Satu Sha	ery Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Depth (ind Remarks:  YDROLO  Wetland Hyde  Surface  High Water Mater Surface  Inundation	GY  drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	: one require rine) onriverine) erine)	d; check all the	Crust (B1 ic Crust (B latic Inverted Irogen Sulf dized Rhize sence of R sent Iron Re in Muck Sur er (Explain	ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C eduction in Tille rface (C7) in Remarks)	4) d Soils (C6	Seconda Wat Sed Driff Draits (C3) Dry- Craits (C3) Satu Sha	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Depth (incomplete in the content of	GY  drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	: one require rine) onriverine) erine)	d; check all the	Crust (B1 ic Crust (B latic Inverted Irogen Sulf dized Rhize sence of R sent Iron Re in Muck Sur er (Explain	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7)	4) d Soils (C6	Seconda Wat Sed Driff Draits (C3) Dry- Craits (C3) Satu Sha	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Depth (inception of the property of the proper	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: one require rine) onriverine) erine) Imagery (B	d; check all th.  ✓ Sall  — Biof  ✓ Aqu  — Hyc  — Oxi  — Pre  — Rec  7) — Thin  — Oth	Crust (B1 ic Crust (B1 iatic Inverte lrogen Sulf dized Rhize sence of R cent Iron Re m Muck Sur er (Explain	ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C eduction in Tille rface (C7) in Remarks)	4) d Soils (C6	Seconda Wat Sed Driff Draits (C3) Dry- Craits (C3) Satu Sha	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Depth (incomplete in the content of	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: prine) priverine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) in in Remarks) s):	4) d Soils (C6	Seconda	ery Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) i Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS
Depth (inception of the property of the proper	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)
Depth (includes cap	GY  drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)
Depth (includes cap Describe Remarks:  IYDROLO Wetland Hyde Primary India Surface High Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Water Table Saturation P (includes cap Describe Re	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)
Depth (inception of the property of the proper	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)
Depth (includes cap Describe Remarks:  YDROLO Wetland Hyde Primary Indic Surface High Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Water Table Saturation P (includes cap Describe Remarks:	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)
Depth (includes cap Describe Remarks:    YDROLO	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	ine) prine) Imagery (B	d; check all th.	Crust (B1 cic Cr	ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Tille rface (C7) n in Remarks) s):s s):s	4) d Soils (C6	Seconda  Wat Sed Drift Draits (C3) Dry- Craits (C3) Satu FAC	ary Indicators (2 or more required) er Marks (B1) ( <b>Riverine</b> ) iment Deposits (B2) ( <b>Riverine</b> ) i Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS) Illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Salton Sea SCH Project	City/County: Imperia	l	Sampling Date:	8-19-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-03
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>29 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): terrace	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts	Lat: 33.10026	Long: -115.75207	Datum	ı: Nad 83
Soil Map Unit Name: Vint loamy very fine sand, wet		-		
Are climatic / hydrologic conditions on the site typical for t	,			
Are Vegetation, Soil, or Hydrology	·	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma				itures, etc.
			.,	
Hydrophytic Vegetation Present? Yes   Hydric Soil Present? Yes   Yes	No V		,	
Wetland Hydrology Present? Yes		nd? Yes	No <u>√</u>	
Remarks:				
VECETATION . Her asignific manner of miss				
VEGETATION – Use scientific names of pla		<del> </del>		
Tree Stratum (Plot size:)	Absolute Dominant Indicator <a href="Mailto:Note: 1.55">Note: The Absolute Dominant Indicator</a> <a href="Mailto:Note: 1.55">Note: The Absolute Dominant In</a>	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,	or FAC: 1	(A)
2		Total Number of Domin	ant	
3		Species Across All Stra		(B)
4		Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,		(A/B)
1. Allenrolfea occidentalis	20 ves FACW	Prevalence Index wor	ksheet:	
2		Total % Cover of:	Multiply	by:
3.		OBL species	x 1 =	
4		FACW species	x 2 =	
5		FAC species		
Horb Stratum (Diot aiza:	= Total Cover	FACU species		
Herb Stratum (Plot size:)  1		UPL species		
2.		Column Totals:	(A)	(B)
3.		Prevalence Index	c = B/A =	
4		Hydrophytic Vegetation	on Indicators:	
5		✓ Dominance Test is		
6		Prevalence Index i		
7			ptations <sup>1</sup> (Provide s s or on a separate s	
8		Problematic Hydro		•
Woody Vine Stratum (Plot size:)	= Total Cover			, ,
1		<sup>1</sup> Indicators of hydric so		
2		be present, unless distr	urbed or problemati	C
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum80	ver of Biotic Crust	Vegetation Ye	es <u>√</u> No	
Remarks:	<del></del>			
The Allenrolfea occidentalis proved to be	e very prolific at this site			
The Allemoned occidentalis proved to be	e very profitte at tills site.			

	cription: (Describe Matrix	to the dep		nent the i x Feature:		or confirm	n the absence o	of indicators.)	
Depth (inches)	Color (moist)	%	Color (moist)	% realures	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10 YR 3/4								
5-12	10 YR 4/3								_
<u> </u>	10 111 1/3								_
	_								_
							<del></del>		_
					-		<del></del>		_
									_
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, CS	S=Covered	or Coate	ed Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Sandy Red				1 cm Mi	uck (A9) ( <b>LRR C</b> )	
	pipedon (A2)		Stripped Ma					uck (A10) ( <b>LRR B</b> )	
	istic (A3)		Loamy Muc					d Vertic (F18)	
	en Sulfide (A4)	0)	Loamy Gley		(F2)			rent Material (TF2)	
	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR D</b> )	C)	Depleted M Redox Dark	, ,	E6)		Other (E	Explain in Remarks)	
	d Below Dark Surfac	· (Δ11)	Depleted D		,				
	ark Surface (A12)	<i>(</i> /(11)	Redox Dep				<sup>3</sup> Indicators o	f hydrophytic vegetation and	
	Aucky Mineral (S1)		Vernal Pool	•	-,			ydrology must be present,	
	Gleyed Matrix (S4)							sturbed or problematic.	
Restrictive	Layer (if present):								
Type:									
Depth (in	ches):						Hydric Soil F	Present? Yes No✓	_
Remarks:							•		
Soils wer	e dry and did n	ot exhib	it signs of hydr	ic soils	or deve	eloping	hydric soils.		
HYDROLO	GY								
Wetland Hy	drology Indicators:	:							
Primary India	cators (minimum of	one required	l; check all that appl	y)			Second	dary Indicators (2 or more required)	_
Surface	Water (A1)		✓ Salt Crust	(B11)			Wa	ater Marks (B1) ( <b>Riverine</b> )	
	ater Table (A2)		Biotic Crus	` '				diment Deposits (B2) (Riverine)	
Saturati			Aquatic In		s (B13)			ft Deposits (B3) (Riverine)	
Water N	farks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen	Sulfide Od	dor (C1)		Dra	ainage Patterns (B10)	
	nt Deposits (B2) (No					Living Roo	ots (C3) Dr	y-Season Water Table (C2)	
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduce	d Iron (C	4)	Cra	ayfish Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tille	d Soils (Ce	6) Sa	turation Visible on Aerial Imagery (C	9)
Inundati	on Visible on Aerial	Imagery (B7	7) Thin Muck	Surface (	C7)		Sh	allow Aquitard (D3)	
Water-S	Stained Leaves (B9)		Other (Exp	olain in Re	marks)		FA	C-Neutral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present?	/es I	No <u>✓</u> Depth (in	ches):					
Water Table	Present?	/es I	No <u>√</u> Depth (in	ches):					
Saturation P		/es I	No <u>✓</u> Depth (in	ches):		Wetl	land Hydrology	Present? Yes No✓	_
(includes cap	pillary fringe) corded Data (strean	naline mo	mitoring well serial	nhotos pr	evious ins	nections)	if available:		
Describe Re	corded Data (Stream	i gauge, inc	initoring well, aerial	priotos, pri	evious iris	pections),	ii avaliable.		
Remarks:									
						_			
•	• .	s observ	ed are conside	red reli	c trom	previou	ıs years hydı	ology and not an indicator	
of recent	hydrology.								

Project/Site: Salton Sea SCH Project	City/County: Imperia	<u> </u>	Sampling Date:	8-19-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point:	SP-04
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>29 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): terrace	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): <u>D</u> - Interior Deserts				
Soil Map Unit Name: Meloland and Holtville loams,				
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma				itures, etc.
			, ,	
Hydrophytic Vegetation Present? Yes <u>✓</u> Hydric Soil Present? Yes	No /			
Wetland Hydrology Present? Yes		nd? Yes	No <u></u>	
Remarks:				
VECETATION . He are invited to a serior of the				
VEGETATION – Use scientific names of pla		<del> </del>		
Tree Stratum (Plot size:)	Absolute Dominant Indicator <a href="Mailto:Note: 1.55">Note: The Absolute Dominant Indicator</a> <a href="Mailto:Note: 1.55">Note: The Absolute Dominant In</a>	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,	or FAC:1_	(A)
2		Total Number of Domin	ant	
3		Species Across All Stra		(B)
4		Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,		(A/B)
1. Allenrolfea occidentalis	60 ves FACW	Prevalence Index wor	ksheet:	
2		Total % Cover of:	Multiply	by:
3.		OBL species	x 1 =	
4		FACW species	x 2 =	
5		FAC species		
Harb Stratum (Diet eine	60 = Total Cover	FACU species		
Herb Stratum (Plot size:)  1		UPL species		
2.		Column Totals:	(A)	(B)
3.		Prevalence Index	= B/A =	
4.		Hydrophytic Vegetation	on Indicators:	
5		✓ Dominance Test is		
6		Prevalence Index i		
7			ptations <sup>1</sup> (Provide s s or on a separate s	
8		Problematic Hydro	•	,
Woody Vine Stratum (Plot size:)	= Total Cover		. , , , , ,	,
1		<sup>1</sup> Indicators of hydric soi		
2.		be present, unless distr	urbed or problemati	C.
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 100 % Co	ver of Biotic Crust	Vegetation Present? Ye	s No	
Remarks:				
The Allenrolfea occidentalis proved to b	a vary prolific at this site			
The Alientonea occidentalis proved to b	e very profitte at tills site.			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-5	10 YR 3/4							
5-12	10 YR 4/3							
				·				
¹Type: C=Co	ncentration, D=Dep	oletion. RM=F	Reduced Matrix, CS	S=Covered	d or Coate	d Sand Gr	rains. <sup>2</sup> Locatio	n: PL=Pore Lining, M=Matrix.
	ndicators: (Applic							Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo		,		1 cm Muck	(A9) ( <b>LRR C</b> )
	ipedon (A2)		Stripped Ma	. ,				(A10) ( <b>LRR B</b> )
Black His	stic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced \	/ertic (F18)
	n Sulfide (A4)		Loamy Gley		(F2)			t Material (TF2)
	Layers (A5) (LRR	C)	Depleted M				Other (Exp	olain in Remarks)
	ck (A9) ( <b>LRR D</b> )	(4.44)	Redox Dark		. ,			
	Below Dark Surfac	e (A11)	Depleted Da				3Indicators of b	udraphytic vegetation and
	rk Surface (A12) ucky Mineral (S1)		Redox Depression   Vernal Pool	•	го)			ydrophytic vegetation and rology must be present,
-	leyed Matrix (S4)		veman oo	3 (1 3)			•	bed or problematic.
-	ayer (if present):							
Type:	, , ,							
• • • • • • • • • • • • • • • • • • • •	:hes):		<del></del>				Hydric Soil Pre	sent? Yes No ✓
Remarks:			<del></del> -					
Soils were	e dry and did n	ot exhibit	signs of hydr	ic soils	or deve	loping h	nydric soils.	
IVDDOL O	0.1/							
HYDROLO								
_	Irology Indicators			,			0 1	
-	ators (minimum of o	one required;						y Indicators (2 or more required)
Surface \	` ,		✓ Salt Crust	` '			·	r Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crus		(D.10)			nent Deposits (B2) (Riverine)
Saturatio		-!\	Aquatic In					Deposits (B3) (Riverine)
	arks (B1) (Nonrive		Hydrogen			Listan Dan		age Patterns (B10)
	t Deposits (B2) (No							season Water Table (C2)
	osits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence Recent Iro					ish Burrows (C8) ation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagory (P7)				u 30118 (C0	· —	ow Aquitard (D3)
	ained Leaves (B9)	illiagery (D1)	Other (Exp	,	,			Neutral Test (D5)
Field Observ	` ,		Outer (EX	Jan III IC	inanco)			Neutral Test (DS)
Surface Water		/oc N	o <u>√</u> Depth (in	choc):				
			Depth (ind Depth (ind					
Water Table							and Hedualani Du	anamta Van Na /
Saturation Pr (includes cap	illary fringe)		o Depth (in					esent? Yes No <u>√</u>
Describe Rec	corded Data (stream	n gauge, mon	itoring well, aerial p	ohotos, pr	evious ins	pections),	if available:	
Domarka:								
Remarks:				_			_	
The hydro	logy indicator	s observe	d are conside	red reli	c from	previou	s years hydrol	ogy and not an indicator
of recent	hydrology.							

Project/Site: Salton Sea SCH Project	C	city/County: Imp	perial		Sampling Date	: 8-18-11	
Applicant/Owner: CDFG, CDWR, USACE			s	tate: CA	Sampling Point	:: <u>SP-05</u>	
Investigator(s): R. Alvidrez, M. Mazon	s	Section, Townsh	/ 12S / 12E				
Landform (hillslope, terrace, etc.): <u>terrace</u>	I	_ocal relief (con	cave, convex, r	, convex, none): <u>concave</u> Slope (%): <u>0-2</u>			
Subregion (LRR): <u>D - Interior deserts</u>	Lat: 33.0	998	Long:	-115.7356	Da	tum: Dec. deg.	
Soil Map Unit Name: Vint loamy very fine sand, v							
Are climatic / hydrologic conditions on the site typical							
Are Vegetation, Soil, or Hydrology	_				es" present? Yes _	√ No	
Are Vegetation, Soil, or Hydrology					swers in Remarks.)		
SUMMARY OF FINDINGS – Attach site r						features. etc.	
				,	,		
	No		mpled Area				
	No	within a	Wetland?	Yes _	No	<del>_</del>	
Remarks:							
\							
VEGETATION – Use scientific names of	<u> </u>						
Tree Stratum (Plot size:)		Dominant Indicates Species? Sta	tuo	ance Test w			
1	<u> </u>		Nullibe	er of Dominar re OBL, FAC		2 (A)	
2				lumber of Do	uminant		
3				s Across All		2 (B)	
4			Percer	t of Dominar	nt Species		
Sapling/Shrub Stratum (Plot size:		= Total Cover				100 (A/B)	
1. <u>Tamarix ramosissima</u>		ves F	∆C Preval	ence Index v	worksheet:		
2					of: Multi	ply by:	
3.					x 1 =		
4				species	x 2 =		
5			FAC s	pecies	x 3 =		
Harb Chrotises (District)		= Total Cover			x 4 =		
Herb Stratum (Plot size:)  1. Typha domingensis		no O	DI		x 5 =		
Distichlis spicata			CW Colum	n Totals:	(A)	(B)	
3. Carex sp.		no no		revalence In	dex = B/A =		
4.				phytic Vege	tation Indicators:		
5				minance Tes			
6			Pr	evalence Ind			
7			Mo		Adaptations <sup>1</sup> (Provid Larks or on a separa		
8			Pr		drophytic Vegetatio	,	
Woody Vine Stratum (Plot size:)	60	= Total Cover		obioinatio i iy	aropriyao vogotaao	ii (Explaiii)	
1			<sup>1</sup> Indica	tors of hydric	soil and wetland hy	drology must	
2.			be pre	sent, unless	disturbed or problen	natic.	
		= Total Cover	Hydro				
% Bare Ground in Herb Stratum 40 %	Cover of Biotic Cri	ıst	Vegeta Presei		Yes <u>√</u> No		
Remarks:	23701 OI DIOIIO OII		_   110361	•••			
I .							

Profile Desc	cription: (Describe	to the depth	needed to docu	nent the i	ndicator	or confir	m the absen	nce of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>			_
0-4	gley 1 6/5 GY	100					silty/sand	<u> </u>	-
4-12	5Y 5/2	100					silty/sand	<u> </u>	_
12-18	5Y 5/2	100					silt/sand	<u> </u>	
				-		-			-
						-			-
									-
						-			_
									_
	oncentration, D=De					d Sand G		Location: PL=Pore Lining, M=Matrix.	
-	Indicators: (Applic	cable to all LR			ed.)			ors for Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Sandy Red	. ,				m Muck (A9) (LRR C)	
	pipedon (A2)		Stripped Ma		L (E4)			m Muck (A10) (LRR B)	
	istic (A3) en Sulfide (A4)		Loamy Muc	-	. ,			duced Vertic (F18) d Parent Material (TF2)	
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		(Г2)			ner (Explain in Remarks)	
	uck (A9) ( <b>LRR D</b> )	0)	Redox Dark	` '	F6)			ici (Expiaii iii Nemarka)	
	d Below Dark Surfac	ce (A11)	Depleted D		,				
	ark Surface (A12)	, ,	Redox Dep				<sup>3</sup> Indicato	ors of hydrophytic vegetation and	
Sandy N	Mucky Mineral (S1)		Vernal Poo	s (F9)			wetlar	nd hydrology must be present,	
	Sleyed Matrix (S4)						unles	ss disturbed or problematic.	
Restrictive	Layer (if present):								
Type:			_						
Depth (in	ches):						Hydric S	Soil Present? Yes No	
Remarks:									
HYDROLO	GY								
Wetland Hy	drology Indicators	:							
Primary India	cators (minimum of	one required; c	heck all that appl	y)			Sec	condary Indicators (2 or more required)	
✓ Surface	Water (A1)	•	✓ Salt Crust	(B11)				Water Marks (B1) (Riverine)	
· <del></del>	ater Table (A2)		Biotic Crus	` '				Sediment Deposits (B2) (Riverine)	
Saturation			✓ Aquatic In		s (B13)			_ Drift Deposits (B3) (Riverine)	
	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen					Drainage Patterns (B10)	
	nt Deposits (B2) (No					Living Ro		_ Dry-Season Water Table (C2)	
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)	
-	Soil Cracks (B6)		Recent Iro					_ Saturation Visible on Aerial Imagery (C9)	)
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (	C7)			_ Shallow Aquitard (D3)	
Water-S	tained Leaves (B9)		Other (Exp	olain in Re	marks)			FAC-Neutral Test (D5)	
Field Obser	vations:								_
Surface Wat	er Present?	res No	Depth (in	ches):					
Water Table			Depth (in						
Saturation P			Depth (in				land Hydrol	logy Present? Yes No	
(includes car	oillary fringe)						_		_
Describe Re	corded Data (stream	n gauge, monit	orıng well, aerial	pnotos, pr	evious ins	pections)	, it available:		
Remarks:									
algal bloc	oms were prese	ent in this S	SP.						

Project/Site: Salton Sea SCH Project	City/Cou	nty: <u>Imperial</u>		Sa	mpling Date:	8-18-11
Applicant/Owner: CDFG, CDWR, USACE			State:	CA Sa	mpling Point: _	SP-06
Investigator(s): R. Alvidrez, M. Mazon	Section,	Township, Ran	ge: <u>28 / 12S / 1</u>	.2E		
Landform (hillslope, terrace, etc.): terrace	Local re	elief (concave, c	onvex, none): <u>co</u>	ncave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts	Lat: <u>33.0999</u>		Long: <u>-115.73</u> 4	188	Datum	ı: Nad 83
Soil Map Unit Name: Indio-vint complex						
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes	<b>√</b> No	(If no, expla	ain in Rema	ırks.)	
Are Vegetation, Soil, or Hydrology _	-		Normal Circumsta			No
Are Vegetation, Soil, or Hydrology _			eded, explain any	answers in	Remarks.)	
SUMMARY OF FINDINGS - Attach site			cations, tran	sects, in	nportant fea	tures, etc.
Hydrophytic Vegetation Present? Yes	No <u>√</u>	the Campled	Avec			
Hydric Soil Present? Yes	/ No	the Sampled within a Wetlan		•	No <u>√</u>	
Wetland Hydrology Present? Yes	No	Titiliii a Wetiaii	u: 10		NO	
Remarks:						
VEGETATION – Use scientific names of	of plants.					
	<u> </u>	ant Indicator	Dominance Tes	st workshe	et:	
Tree Stratum (Plot size:)	% Cover Specie		Number of Dom			
1			That Are OBL, F	ACW, or F	AC:	(A)
2			Total Number of	Dominant		
3			Species Across	All Strata:		(B)
4			Percent of Domi			
Sapling/Shrub Stratum (Plot size:	= Total _)	Cover	That Are OBL, F	ACW, or F	AC:	(A/B)
1			Prevalence Ind	ex worksh	eet:	
2			Total % Cov			-
3			OBL species			
4			FACW species			
5			FAC species			
Herb Stratum (Plot size: )	= Total	Cover	FACU species UPL species			
1			Column Totals:			
2.			Column Totals.		_ (^)	(D)
3			Prevalence	e Index = E	3/A =	
4		[	Hydrophytic Ve	_		
5			Dominance			
6			Prevalence			
7			Morphologio	cai Adaptati Remarks or	ons" (Provide s on a separate s	upporting sheet)
8			Problemation		•	•
Woody Vine Stratum (Plot size:)	= Total	Cover				
1			<sup>1</sup> Indicators of hy			
2			be present, unle	ss disturbe	d or problemati	C.
	= Total		Hydrophytic			
% Bare Ground in Herb Stratum	% Cover of Biotic Crust		Vegetation Present?	Yes	No <u></u>	<u></u>
Remarks:						

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirr	n the absence	e of indicators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-6	5Y 6/3	70	5Y 6/1	15	<u>C</u>		sandy cla	clay 80%
	5Y 6/3	70	2.5 YR 5/8	15	С			
6-12	5Y 6/1	95	2.5 Y 5/8	5	С		silty sand	clay 0% loam
12-18	5Y 6/1	95	2.5 Y 5/8	5	_ <u>C</u>		silty sand	loam
l	-			_				
17	tanaantustian D-Dan	Jetien DM	-Dadwaad Matrix C					postion. DI –Done Lining M-Motein
	ioncentration, D=Dep Indicators: (Applic					a Sana G		s for Problematic Hydric Soils <sup>3</sup> :
1 -		able to all			ieu.)			•
Histoso	pipedon (A2)		Sandy Red Stripped M					Muck (A9) ( <b>LRR C</b> ) Muck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud					ced Vertic (F18)
	en Sulfide (A4)		Loamy Gle	-				Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	✓ Depleted M					(Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	•	Redox Dar	k Surface	(F6)			
Deplete	d Below Dark Surfac	e (A11)	Depleted D	ark Surfa	ce (F7)			
	ark Surface (A12)		Redox Dep		(F8)			s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				I hydrology must be present,
	Gleyed Matrix (S4)						unless	disturbed or problematic.
	Layer (if present):							
' '	iches):						Hydric Soi	il Present? Yes <u>√</u> No
Remarks:								
HYDROLO	)GV							
	drology Indicators:						_	
	cators (minimum of o	ne require		-				ondary Indicators (2 or more required)
	Water (A1)		✓ Salt Crust	` '				Water Marks (B1) (Riverine)
_	ater Table (A2)		Biotic Cru					Sediment Deposits (B2) (Riverine)
✓ Saturati	` ,		✓ Aquatic In		, ,			Drift Deposits (B3) (Riverine)
	Marks (B1) (Nonriver		Hydrogen			5		Drainage Patterns (B10)
	nt Deposits (B2) (No	,			_	_		Dry-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence		,	•		Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro			d Soils (Ci		Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B	· —					Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		'	FAC-Neutral Test (D5)
Field Obser								
Surface Wat			No Depth (in					
Water Table			No Depth (in					
Saturation F		'es <u>√</u>	No Depth (in	ches): <u>4</u>		Wet	land Hydrolog	gy Present? Yes No
	pillary fringe) ecorded Data (stream	n dalide m	onitoring well aerial	nhotos n	revious ins	nections)	if available:	
Describe 140	ooraca Data (otreati	r gaage, m	ormorning wen, derial	рпосоо, р	revious inc	,pco.io110),	ii avallabic.	
Domarka								
Remarks:								
Í								

Project/Site: Salton Sea SCH Project	City	//County: Imperial		Sa	mpling Date:	8-18-11
Applicant/Owner: CDFG, CDWR, USACE			State:	CA Sa	mpling Point: _	SP-07
Investigator(s): M. Simmons, I. Watson	Se	ction, Township, Ra	inge: <u>28 / 125 / 1</u>	L2E		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave,	convex, none): <u>co</u>	ncave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts	Lat: 33.10	0637	_ Long: <u>-115.72</u>	4832	Datum	n: Nad 83
Soil Map Unit Name: Not available			NWI	classificatio	n: L1UBH	
Are climatic / hydrologic conditions on the site typical f		,				
Are Vegetation, Soil, or Hydrology	-		"Normal Circumsta		_	No
Are Vegetation, Soil, or Hydrology			eeded, explain any			
SUMMARY OF FINDINGS – Attach site n						itures, etc.
	No	T		<u> </u>	•	· · · · · · · · · · · · · · · · · · ·
	No <b>✓</b>	Is the Sampled		_	No. /	
	No ✓	within a Wetla	nd? Ye	es	No <u>√</u>	
Remarks:		•				
VECETATION Has a signific manner of	-1					
VEGETATION – Use scientific names of	•					
Tree Stratum (Plot size:)		ominant Indicator pecies? Status	Dominance Te			
1	· · · · · · · · · · · · · · · · · · ·		Number of Dom That Are OBL, I		es AC: <u>2</u>	(A)
2			Total Number o	f Dominant		
3			Species Across		2	(B)
4			Percent of Dom	inant Sneci	29	
Capling/Chruh Ctratum (Dlat size)	=	Total Cover	That Are OBL, I			(A/B)
Sapling/Shrub Stratum (Plot size:)  1. Atriplex lentiformis		VAS FAC	Prevalence Inc	ex worksh	eet·	
2. Allenrolfea occidentalis	_		Total % Co			bv:
3.			OBL species			-
4.			FACW species			
5			FAC species		_ x 3 =	
	15=	Total Cover	FACU species		_ x 4 =	
Herb Stratum (Plot size:)			UPL species			
1			Column Totals:		(A)	(B)
2			Prevalenc	e Index = E	3/A =	
4			Hydrophytic V			
5			<u>✓</u> Dominance	_		
6.			Prevalence	Index is ≤3	.0 <sup>1</sup>	
7					ons <sup>1</sup> (Provide s	
8					on a separate s	•
	=	Total Cover	Problemation	с нуагорпут	ic vegetation (	Explain)
Woody Vine Stratum (Plot size:)			<sup>1</sup> Indicators of hy	dric soil an	d wetland hydro	alogy must
1			be present, unle			
2	=		Hydrophytic			
100			Vegetation	.,		
	Cover of Biotic Crus	t	Present?	Yes	<u>√</u> No	<u> </u>
Remarks:						

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confir	n the absence	e of indicators.)
Depth	Matrix			x Feature	-	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	<u>Texture</u>	Remarks
0-3							sand	· ————
3-6		·	-				sand	numerous invertebrates
6-14	2.5 Y 5/2	80	10 YR 5/8	20	<u>C</u>	M		
			-					
								· ·
							_	
	-	-	-					
¹Type: C=C	oncentration D=Den	letion PM	=Reduced Matrix, CS	S=Covere	d or Coate	d Sand G	raine <sup>2</sup> Lo	ocation: PL=Pore Lining, M=Matrix.
			LRRs, unless other			u Sanu O		s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo		,			Muck (A9) (LRR C)
	oipedon (A2)		Stripped Ma	. ,				Muck (A10) (LRR B)
	stic (A3)		Loamy Muc		l (F1)			ced Vertic (F18)
	en Sulfide (A4)		Loamy Gley		(F2)		Red F	Parent Material (TF2)
	d Layers (A5) (LRR (	<b>C</b> )	✓ Depleted M	, ,			Other	(Explain in Remarks)
	ick (A9) (LRR D)	- (011)	Redox Dark		` ,			
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Da				3Indicators	s of hydrophytic vegetation and
	Aucky Mineral (S1)		Vernal Pool		10)			l hydrology must be present,
	Gleyed Matrix (S4)			o (. o)				disturbed or problematic.
Restrictive I	Layer (if present):							
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes No✓
Remarks:							I_	
Some soils	in the Arid West ex	vhihit rad	ovimorphic feature	ac and hi	ıdric soil	ndicator	rs that forme	d in the recent or distant past when
								gh wetland hydrology may no longer
			considered to be r					
HYDROLO	GY							
	drology Indicators:							
_			d; check all that appl	v)			Seco	andary Indicators (2 or more required)
Surface	Water (A1)	-	Salt Crust	(B11)				Water Marks (B1) (Riverine)
— High Wa	ater Table (A2)		Biotic Crus	st (B12)				Sediment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic In		es (B13)			Orift Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonriver</b>	ine)	Hydrogen					Orainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>		Oxidized F	Rhizosphe	res along	Living Ro		Dry-Season Water Table (C2)
✓ Drift Dep	oosits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C4	.)	(	Crayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tille	d Soils (C	6) 5	Saturation Visible on Aerial Imagery (C9)
✓ Inundati	on Visible on Aerial I	magery (B	7) Thin Muck	Surface	(C7)		9	Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Exp	olain in Re	emarks)		F	FAC-Neutral Test (D5)
Field Obser								
Surface Wat			No <u>✓</u> Depth (in					
Water Table	Present? Y	es	No <u>√</u> Depth (in	ches):		_		
Saturation P		es	No✓ Depth (in	ches):		_ Wet	land Hydrolog	gy Present? Yes No
		gauge, m	onitoring well, aerial ¡	ohotos, pr	evious ins	pections),	, if available:	
	•	•	-	•		,		
Remarks:								
The hydro	alogy indicators	sohsen	ed are conside	red reli	c from	reviou	is vears hu	drology and not an indicator
c i i y u i t	hydrology.		Ca are conside		5 OIII	J. C V 10 U	y cars rry	a. 5.567 and not an malcator

Project/Site: Salton Sea SCH Project	City/Count	y: <u>Imperial</u>		_ Sampling Date: _	8-18-11		
Applicant/Owner: CDFG, CDWR, USACE			State: CA	_ Sampling Point: _	SP-08		
Investigator(s): M. Simmons, I. Watson	Section, Township, Range: 28 / 12S / 12E						
Landform (hillslope, terrace, etc.): shoreline	Local relie	ef (concave,	convex, none): concave Slope (%): 0-1				
Subregion (LRR): D - Interior Deserts							
Soil Map Unit Name: Meloland very fine sandy loar							
Are climatic / hydrologic conditions on the site typical for		,					
Are Vegetation, Soil, or Hydrology			"Normal Circumstances"		, No		
Are Vegetation, Soil, or Hydrology			eeded, explain any answ	-			
SUMMARY OF FINDINGS – Attach site ma					atures. etc.		
		<u> </u>					
	No	he Sampled		,			
	No with	hin a Wetla	nd? Yes	✓ No			
Remarks:							
VECETATION . He a significant and section of the	lauta						
VEGETATION – Use scientific names of p			T				
Tree Stratum (Plot size:)	Absolute Dominan <u>% Cover Species?</u>		Dominance Test wor				
1			Number of Dominant : That Are OBL, FACW		(A)		
2			Total Number of Dom	inant			
3			Species Across All St		(B)		
4			Percent of Dominant S	Snecies			
Capling/Chrush Stratum / Plat size:	= Total Co	over	That Are OBL, FACW		(A/B)		
Sapling/Shrub Stratum (Plot size:)  1. Tamarix ramosissima	30yes	EΛC	Prevalence Index wo	rksheet:			
Allenrolfea occidentalis	20	FACW	Total % Cover of:		bv:		
3.			OBL species		-		
4.			FACW species				
5			FAC species	x 3 =			
	60 = Total Co	over	FACU species	x 4 =			
Herb Stratum (Plot size:)			UPL species				
1			Column Totals:	(A)	(B)		
2			Prevalence Inde	ex = B/A =			
4			Hydrophytic Vegetat				
5			✓ Dominance Test				
6.			Prevalence Index	is ≤3.0 <sup>1</sup>			
7				aptations <sup>1</sup> (Provide s			
8				ks or on a separate	•		
	= Total Co	over	Problematic Hydr	opnytic vegetation	(Explain)		
Woody Vine Stratum (Plot size:)			<sup>1</sup> Indicators of hydric se	oil and wetland hydro	ology must		
1			be present, unless dis				
2	= Total Co	over	Hydrophytic				
N. David Construction 100 N. O.			Vegetation	( / N-			
	over of Biotic Crust	<del></del>	Present? Y	es <u>√</u> No			
Remarks:							

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			x Feature	s1	. 2			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	—
0-5	5 Y 5/2	85	10 YR 5/8	15	<u>C</u>	M, PL			_
5-12	2.5 Y 6/2	80	10 YR 5/6	20	С	M, PL			_
				-		· <del></del>			_
		· ——				· ——			_
		<u> </u>	-		· -	<del></del>			_
				_					_
¹Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gra	ains. <sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.	_
			LRRs, unless othe					Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck	(A9) ( <b>LRR C</b> )	
Histic Ep	ipedon (A2)		Stripped M	atrix (S6)			2 cm Muck	(A10) ( <b>LRR B</b> )	
Black His	stic (A3)		Loamy Mud	-			Reduced V		
	n Sulfide (A4)		Loamy Gle		(F2)			t Material (TF2)	
	Layers (A5) (LRR (	<b>C</b> )	✓ Depleted M	, ,			Other (Exp	lain in Remarks)	
	ck (A9) (LRR D)	- (0.4.4)	Redox Dari		` ,				
	l Below Dark Surfac irk Surface (A12)	e (A11)	Depleted D Redox Dep				3Indicators of b	ydrophytic vegetation and	
	lucky Mineral (S1)		Vernal Poo	,	ro)			ology must be present,	
-	leyed Matrix (S4)		verriar oo	13 (1 3)			-	bed or problematic.	
-	ayer (if present):						<u> </u>		
Type:									
	ches):						Hydric Soil Pres	sent? Yes ✓ No	
Remarks:			<del></del>				, , , , , ,		
HYDROLO									
Wetland Hyd	Irology Indicators:								
Primary Indic	ators (minimum of o	ne require	d; check all that app	y)			Secondary	/ Indicators (2 or more required)	_
Surface	Water (A1)		Salt Crust	(B11)			Water	Marks (B1) (Riverine)	
High Wa	ter Table (A2)		Biotic Cru	st (B12)			Sedim	nent Deposits (B2) (Riverine)	
Saturation	on (A3)		✓ Aquatic In	vertebrate	es (B13)		Drift D	Deposits (B3) (Riverine)	
Water M	arks (B1) ( <b>Nonriver</b>	ine)	Hydrogen	Sulfide O	dor (C1)		✓ Draina	age Patterns (B10)	
Sedimen	t Deposits (B2) (No	nriverine)	Oxidized I	Rhizosphe	eres along	Living Roof	ts (C3) Dry-S	eason Water Table (C2)	
✓ Drift Dep	osits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C	4)	Crayfi	sh Burrows (C8)	
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reducti	ion in Tille	ed Soils (C6)	) Satura	ation Visible on Aerial Imagery (CS	Э)
Inundation	on Visible on Aerial I	magery (E	37) Thin Muck	Surface (	(C7)		Shallo	ow Aquitard (D3)	
Water-St	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-1	Neutral Test (D5)	
Field Observ	/ations:								
Surface Water	er Present? Y	es	No <u>✓</u> Depth (in	ches):					
Water Table	Present? Y	es	No <u>√</u> Depth (in	ches):					
Saturation Pr	resent? Y	es	No <u>✓</u> Depth (in	ches):		Wetla	and Hydrology Pro	esent? Yes <u>√</u> No	
(includes cap									
Describe Red	corded Data (stream	gauge, m	onitoring well, aerial	pnotos, pr	evious in	spections), i	f available:		
Remarks:									

Project/Site: Salton Sea SCH Project	City/County: Imperia	<u> </u>	Sampling Date:	8-18-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-09
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>28 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts	Lat: <u>33.094715</u>	_ Long: -115.717268	Datum	ı: <u>Nad 83</u>
Soil Map Unit Name: Not available		NWI classific	cation: L1UBH	
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	·	
SUMMARY OF FINDINGS – Attach site ma				ituros etc
		Tocations, transcots	, important rea	
	No Is the Sample	d Area		
	No within a Wetla	nd? Yes <u>√</u>	No	
Remarks:				
Troniano.				
VEGETATION – Use scientific names of p	lants.			
Trace Christians (Districts)	Absolute Dominant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant S	pecies	(A)
1 2		That Are OBL, FACW,	OI FACI	(A)
3.		Total Number of Domin Species Across All Stra		(B)
4				(D)
	= Total Cover	Percent of Dominant S That Are OBL, FACW,		) (A/B)
Sapling/Shrub Stratum (Plot size:)				(,,,,,
1. <u>Tamarix ramosissima</u>		Prevalence Index wor		h
2		Total % Cover of:	· ·	_
3		OBL species		
4.       5.		FAC species		
o	= Total Cover	FACU species		
Herb Stratum (Plot size:)		UPL species		
1		Column Totals:	(A)	(B)
2		December on to december	D/A	
3			= B/A =	
4		Hydrophytic Vegetation ✓ Dominance Test is		
5		Prevalence Index i		
6 7			ptations <sup>1</sup> (Provide s	upporting
8			s or on a separate s	,
	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (	Explain)
Woody Vine Stratum (Plot size:)		1		
1		<sup>1</sup> Indicators of hydric solution be present, unless distri-		
2				
	= Total Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 100 % Co	over of Biotic Crust	Present? Ye	s No	
Remarks:				

Depth	Matrix	0/		ox Features		Loc <sup>2</sup>	Toytura	Domorko
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>		Texture	Remarks
0-10	2.5 Y 6/2	80	10 YR 5/6		<u>C</u>	<u>M</u>		
10-16	Gley1 4/N	100					silty clay	
			-				-	
			-			-		
<u> </u>							2.	
	oncentration, D=De Indicators: (Appli					d Sand G		on: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
-		cable to all			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped M					( (A9) ( <b>LRR C</b> ) ( (A10) ( <b>LRR B</b> )
	istic (A3)			cky Mineral	(F1)			/ertic (F18)
	en Sulfide (A4)		Loamy Gle	-				nt Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	✓ Depleted N	-	, ,			plain in Remarks)
	uck (A9) ( <b>LRR D</b> )	,		k Surface (F	<del>-</del> 6)			,
	d Below Dark Surfa	ce (A11)	Depleted D	ark Surface	e (F7)			
	ark Surface (A12)			ressions (F	(8)			ydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				rology must be present,
	Gleyed Matrix (S4)						unless distu	rbed or problematic.
	Layer (if present):							
• • •	-h).						Undein Cail Dea	No. / No.
Remarks:	ches):						Hydric Soil Pre	esent? Yes <u>√</u> No
YDROLO								
-	drology Indicators		d. abaal, all 4ba4 aw.	l)			Casandan	. Indicators (O on many manyimed)
-	cators (minimum of	one require	•	**				y Indicators (2 or more required)
	Water (A1)		Salt Crus	t (B11)				
_	ater Table (A2)						·	r Marks (B1) (Riverine)
			Biotic Cru				Sedir	ment Deposits (B2) (Riverine)
✓ Saturati	, ,		Aquatic Ir	vertebrates	. ,		Sedir Srift I	ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> )
Water N	Marks (B1) ( <b>Nonrive</b>	•	Aquatic Ir ✓ Hydroger	overtebrates Sulfide Od	or (C1)	5	Sedir Drift I	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
Water N Sedime	Marks (B1) (Nonrive nt Deposits (B2) (No	onriverine)	<ul><li> Aquatic Ir</li><li>_✓ Hydroger</li><li> Oxidized</li></ul>	overtebrates Sulfide Od Rhizospher	or (C1) es along	_	Sedir Drift I Drain ots (C3) Dry-S	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2)
Water N Sedime Drift De	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive	onriverine)	Aquatic Ir Hydroger Oxidized Presence	overtebrates Sulfide Od Rhizosphere of Reduced	or (C1) es along d Iron (C4	ł)	Sedir Drift I Drain ots (C3) Crayl	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Water N Sedime Drift De Surface	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	onriverine) erine)	Aquatic Ir Hydroger Oxidized Presence Recent Ir	overtebrates Sulfide Od Rhizosphero of Reduced on Reduction	or (C1) es along d Iron (C4 on in Tilled	ł)	Sedir Drift I Drain ots (C3) Dry-S Crayf S) Satur	ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) lage Patterns (B10) Season Water Table (C2) Tish Burrows (C8) ration Visible on Aerial Imagery (C9)
Water M Sedime Drift De Surface Inundat	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial	onriverine) erine) Imagery (B	Aquatic Ir Hydroger Oxidized Presence Recent In 7) Thin Muc	Sulfide Od Rhizospher of Reduced on Reduction & Surface (C	or (C1) es along l d Iron (C4 on in Tilled	ł)	Sedir Drift I Drain ots (C3) Dry-S Crayl 6) Satur Shall	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Water M Sedime Drift De Surface Inundat Water-S	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	onriverine) erine) Imagery (B	Aquatic Ir Hydroger Oxidized Presence Recent In 7) Thin Muc	overtebrates Sulfide Od Rhizosphero of Reduced on Reduction	or (C1) es along l d Iron (C4 on in Tilled	ł)	Sedir Drift I Drain ots (C3) Dry-S Crayl 6) Satur Shall	ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) lage Patterns (B10) Season Water Table (C2) Tish Burrows (C8) ration Visible on Aerial Imagery (C9)
Water N Sedime Drift De Surface Inundat Water-S	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations:	onriverine) erine) Imagery (B	Aquatic Ir Hydroger Oxidized Presence Recent In 7) Thin Muc Other (Ex	Sulfide Od Rhizospher of Reduced on Reduction & Surface (C plain in Rer	or (C1) es along d Iron (C4 on in Tilled C7) marks)	l) d Soils (C6	Sedir Drift I Drain ots (C3) Dry-S Crayl 6) Satur Shall	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Water N Sedime Drift De Surface Inundat Water-S Field Obser	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial stained Leaves (B9) vations: ter Present?	onriverine) erine) Imagery (B	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex	svertebrates Sulfide Od Rhizospher of Reduced on Reduction c Surface (C plain in Rer	or (C1) es along d Iron (C4 on in Tilleo C7) marks)	B)  d Soils (C6	Sedir Drift I Drain ots (C3) Dry-S Crayl 6) Satur Shall	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present?	onriverine) erine) Imagery (B Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent Ir  7) — Thin Muc — Other (Ex  No ✓ Depth (ir	Sulfide Od Rhizospher of Reduced on Reduction & Surface (C plain in Rer	or (C1) es along d Iron (C4 on in Tilled C7) marks)	t) d Soils (Ce	Sedir Drift I Drain ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	Aquatic Ir  ✓ Hydroger  Oxidized  Presence  Recent In  7) Thin Muc  Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction c Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	Aquatic Ir  ✓ Hydroger  Oxidized  Presence  Recent In  7) Thin Muc  Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction c Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction c Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction c Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction k Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction k Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)
Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	onriverine) erine) Imagery (B  Yes Yes Yes Yes	— Aquatic Ir  ✓ Hydroger — Oxidized — Presence — Recent In  7) — Thin Muc — Other (Ex  No ✓ Depth (ir  No _ Depth (ir	svertebrates Sulfide Od Rhizospher of Reduced on Reduction k Surface (C plain in Rer aches): aches): aches): 10	or (C1) es along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Sedir Drift I Drift I Drain Ots (C3) Crayl Satur Shall FAC-	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) lage Patterns (B10) Season Water Table (C2) lish Burrows (C8) lation Visible on Aerial Imagery (C9) low Aquitard (D3) Neutral Test (D5)

Project/Site: Salton Sea SCH Project	City/County: Imperial		Sampling Date:	8-16-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-10
Investigator(s): R. Alvidrez, M. Mazon	Section, Township, Ra	ange: <u>27 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): <u>concave</u> Slope (%):		
Subregion (LRR): <u>D - Interior Deserts</u>				
Soil Map Unit Name: Imperial silty clay, wet		_		
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p	_	No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
				turas ata
SUMMARY OF FINDINGS – Attach site ma	ap snowing sampling point i	ocations, transects	s, important lea	ltures, etc.
	No Is the Sample	d Area		
	No <u>√</u> within a Wetla	nd? Yes	No <u>√</u>	
	_ No			
Remarks:				
VEGETATION – Use scientific names of p	lants.			
	Absolute Dominant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S	pecies	
1		That Are OBL, FACW,	or FAC:	(A)
2		Total Number of Domin		
3		Species Across All Stra	ata:	(B)
4	= Total Cover	Percent of Dominant S		(4 (5)
Sapling/Shrub Stratum (Plot size:)	= Total Covel	That Are OBL, FACW,	or FAC:	(A/B)
1		Prevalence Index wor	ksheet:	
2		Total % Cover of:		-
3		OBL species		
4		FACW species		
5		FACIL appeies		
Herb Stratum (Plot size:)	= Total Cover	FACU species  UPL species		
1		Column Totals:		
2		Column Fotalo.	(//)	(D)
3			= B/A =	
4		Hydrophytic Vegetation		
5		Dominance Test is		
6		Prevalence Index i	s ≤3.01 ptations¹ (Provide s	unnorting
7			s or on a separate s	
8		Problematic Hydro	phytic Vegetation <sup>1</sup> (	Explain)
Woody Vine Stratum (Plot size:)	= Total Cover			
1		<sup>1</sup> Indicators of hydric so		
2		be present, unless distr	urbed or problemati	C.
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 100 % C	over of Biotic Crust	Vegetation Present? Ye	s No_ <u>v</u>	<u>/</u>
Remarks:	<del></del>			

Depth	Matrix			ox Featur		or confir	m the absence	, or maioatorol,
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
)-6	2.5 Y 5/2	80	2.5 YR 4/8	20	<u>C</u>	M	sandy silt	
5-12	2.5 Y 5/2	55	gley2 4/5	40	С	M	silt/clay	clay 70%
5-12	2.5 Y 5/2	_55	2.5 YR 4/8	5	С	M	silt/clay	
2-15	2.5 Y 5/2	75	gley2 4/5	25	С	М	silt/clay	
	Indicators: (Appl		1=Reduced Matrix, C I LRRs, unless othe Sandy Rec	rwise no		ed Sand G	Indicators	cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> : Muck (A9) (LRR C)
	pipedon (A2)		Stripped M	. ,				Muck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu	cky Miner	al (F1)			ced Vertic (F18)
	en Sulfide (A4)		Loamy Gle	-				arent Material (TF2)
1 cm Mu Deplete Thick Da Sandy M Sandy C	d Layers (A5) (LRF uck (A9) (LRR D) d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	ace (A11)	✓ Depleted M — Redox Dar — Depleted D — Redox Dep — Vernal Poo	k Surface Oark Surfa Oressions	(F6) ce (F7)		<sup>3</sup> Indicators wetland	(Explain in Remarks) of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
estrictive	Layer (if present):	:						
Type: <u>cla</u>	ay							
Depth (in	iches): <u>12</u>							/
	in the Arid West	ovbibit ro	davimarabia faatuu	oc and h	udria cail	indicata		I Present? Yes No _✓
ome soils onditions e present.	may have been was therefore, soils	wetter thar		hese fea	tures hav	e persist	rs that formed ed even thoug	d in the recent or distant past when
ome soils onditions e present.	may have been v . Therefore, soils <b>DGY</b>	wetter than on site are	n they are today. T	hese fea	tures hav	e persist	rs that formed ed even thoug	d in the recent or distant past when
ome soils onditions e present. 'DROLO Vetland Hy	may have been was therefore, soils of the desired o	wetter than on site are	n they are today. T e considered to be	hese fea relic and	tures hav	e persist	rs that formed ed even thoug urrent condition	d in the recent or distant past when gh wetland hydrology may no longe ons.
ome soils onditions e present. 'DROLO 'etland Hy rimary Indi	may have been was. Therefore, soils DGY rdrology Indicator cators (minimum of	wetter than on site are	n they are today. T e considered to be ed; check all that app	hese fea relic and	tures hav	e persist	rs that formed ed even thoug urrent condition	d in the recent or distant past when gh wetland hydrology may no longe ons. ndary Indicators (2 or more required)
ome soils onditions e present.  'DROLO detland Hy rimary India Surface	may have been we. Therefore, soils DGY drology Indicator cators (minimum of Water (A1)	wetter than on site are	n they are today. The considered to be considered to be considered to be considered to be considered; check all that app so salt Crusi	hese fea relic and ly) t (B11)	tures hav	e persist	rs that formed ed even thoug irrent condition Second	d in the recent or distant past when gh wetland hydrology may no longe ons.  ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )
ome soils onditions e present.  'DROLO detland Hy rimary India Surface High Wa	may have been way. Therefore, soils DGY rdrology Indicator cators (minimum of Water (A1) ater Table (A2)	wetter than on site are	ed; check all that app	hese fea relic and lly) t (B11) est (B12)	tures hav	e persist	rs that formed ed even thoug urrent condition Secon V	d in the recent or distant past when gh wetland hydrology may no longerons.  Indary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
ome soils onditions of present.  TOROLO  Tetland Hyrimary India  Surface  High Wa  Saturati	may have been way. Therefore, soils DGY rdrology Indicator cators (minimum of Water (A1) ater Table (A2)	wetter than s on site are rs: f one require	n they are today. The considered to be considered to be considered to be considered to be considered; check all that app so salt Crusi	ly) t (B11) st (B12) nvertebrat	tures hav I do not p	e persist	rs that formed ed even thought in the condition of the co	d in the recent or distant past when gh wetland hydrology may no longe ons.  ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )
ome soils onditions e present.  /DROLO /etland Hy rimary India _ Surface _ High Wa _ Saturati / Water M	may have been way. Therefore, soils  OGY  Idrology Indicator cators (minimum or Water (A1) ater Table (A2) ion (A3)	wetter than on site are res: f one require rerine)	ed; check all that app  Salt Crus  Biotic Cru  Aquatic Ir  Hydrogen	hese fea relic and lly) t (B11) lst (B12) avertebrat s Sulfide C	tures hav I do not p	e persist ortray cu	rs that formed ed even thought in the condition of the co	d in the recent or distant past when the second of the sec
ome soils onditions e present.  /DROLO /etland Hy rimary India Surface High Wa Saturati / Water M / Sedime	may have been we. Therefore, soils  OGY  Indrology Indicator Cators (minimum of Water (A1) Index Table (A2) Indicator (A3)  Marks (B1) (Nonriv	wetter than on site are rs: f one require rerine)	ed; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized	hese fea relic and ly) t (B11) ast (B12) avertebrat a Sulfide C Rhizosph	es (B13)	e persist ortray cu	rs that formed ed even thought rent condition  Second  V Second  C	d in the recent or distant past when the second of the sec
ome soils onditions e present.  'DROLO detland Hy rimary India Surface High Wa Saturati Water Mark Sedimel Drift De	may have been way. Therefore, soils  OGY  Indrology Indicator Cators (minimum of Water (A1) Later Table (A2) Lon (A3)  Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Depos	wetter than on site are rs: f one require rerine)	ed; check all that app  Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ly) t (B11) st (B12) evertebrat Sulfide C Rhizosph of Reduc	es (B13) Odor (C1) eres along	e persist ortray cu Living Ro 4)	rs that formed ed even thought rent condition  Second V Second S S	d in the recent or distant past when the shaden hydrology may no longer ons.  Indary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)
ome soils onditions of present.  TOROLO  Tetland Hy  Timary India  Surface  High Wa  Saturati  Water N  Sedime  Drift De  Surface  Inundati	may have been way. Therefore, soils  OGY  Indrology Indicator cators (minimum or water (A1)  Indexer Table (A2)  Indicator (A3)  Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B3))  Indicator (B6)  Indic	wetter than s on site are rs: f one require erine) Nonriverine; werine)	ed; check all that app  ded; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire 37) Thin Muc	ly) t (B11) st (B12) nvertebrat s Sulfide C Rhizosph of Reduc to Reduc k Surface	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7)	e persist ortray cu Living Ro 4)	s that formed ed even thought rent condition  Second  V  Second  C  C  Cots (C3)  C  C  C  C  C  C  C  C  C  C  C  C  C	d in the recent or distant past when the set wetland hydrology may no longerons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
ome soils onditions e present.  TOROLO  Tetland Hy  Timary India  Surface  High Wa  Saturati  Water M  Sedime  Drift De  Surface  Inundati  Water-S	may have been we. Therefore, soils  OGY  Indrology Indicator Cators (minimum of Water (A1) Indeed Table (A2) Indrology Indicator Water (A1) Indreed Table (A2) Indrology Indicator Water (A1) Indreed Table (A2) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indreed Table (A2) Indrology Indicator Water (A1) Indrology Indicator Water (A2) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrology Indrology Indicator Water (A3) Indrology	wetter than s on site are rs: f one require erine) Nonriverine; werine)	ed; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ly) t (B11) st (B12) nvertebrat s Sulfide C Rhizosph of Reduc to Reduc k Surface	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7)	e persist ortray cu Living Ro 4)	s that formed ed even thought rent condition  Second  V  Second  C  C  Cots (C3)  C  C  C  C  C  C  C  C  C  C  C  C  C	d in the recent or distant past when the second of the recent of distant past when the second of the recent of of the
ome soils onditions e present.  TDROLO  etland Hy imary India  Surface  High Wa  Saturati  Water M  Sedime  Drift De  Surface Inundati  Water-Sedi Obser	may have been way. Therefore, soils  OGY  Indrology Indicator Cators (minimum or Water (A1) Indexer Table (A2) Indrology Indicator Water (A1) Indexer Table (A2) Indrology Indicator Water (A1) Indexer Table (A2) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A2) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A1) Indrology Indicator Water (A2) Indrology Indicator Water (A1) Indrology Indicator Water (A2) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrology Indicator Water (A3) Indrol	wetter than con site are rs: fone require verine) al Imagery (E	ed; check all that app  Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ly) t (B11) nvertebrat a Sulfide C Rhizosph of Reduc on Reduc k Surface plain in R	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	e persist ortray cu Living Ro 4) ed Soils (C	s that formed ed even thought rent condition  Second  V  Second  C  C  Cots (C3)  C  C  C  C  C  C  C  C  C  C  C  C  C	d in the recent or distant past when the set wetland hydrology may no longerons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
ome soils onditions e present.  // OROLO //etland Hy rimary India Surface High Wa Saturati // Water M // Sedime Drift De Inundati Water-Sield Obserurface Water Water Water Sedime Water-Sield Obserurface Water Sedime Water-Sedime Water-Se	may have been way. Therefore, soils  OGY  Idrology Indicator Cators (minimum or Water (A1) Arter Table (A2) Ion (A3) Marks (B1) (Nonrive Int Deposits (B2) (Nonrive Soil Cracks (B6) Ion Visible on Aeria Stained Leaves (B9 Ivations: Idea Present?	wetter than s on site are rs: f one require verine) al Imagery (E	ed; check all that app  ded; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	ly)  t (B11)  st (B12)  nvertebrat  Sulfide C Rhizosph  of Reduc on Reduc k Surface plain in R	es (B13) Dodor (C1) eres along ded Iron (C tion in Tille (C7) emarks)	e persist ortray cu Living Ro 4) ed Soils (C	s that formed ed even thought rent condition  Second  V  Second  C  C  Cots (C3)  C  C  C  C  C  C  C  C  C  C  C  C  C	d in the recent or distant past when the set wetland hydrology may no longerons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
rimary India Surface High Wa Saturati Surface High Wa Saturati Sedime Drift De Surface Inundati Water-S ield Obser urface Wat Vater Table aturation P	may have been way. Therefore, soils  OGY  Indrology Indicator Cators (minimum or Water (A1) Atter Table (A2) Ion (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Deposits (B6) Ion Visible on Aeria Stained Leaves (B9) Ivations: Iter Present? Present?	wetter than a consite are consite are consite are consite are considered.  Table 1.  Table 2.  Table 2.  Table 3.  Table 3.  Table 3.  Table 3.  Table 4.  T	ed; check all that app  Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	hese fea relic and ly)  t (B11) st (B12) nvertebrate Sulfide Con Reduction R	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	Living Ro	s that formed ed even thought rent conditions and second s	d in the recent or distant past when the set wetland hydrology may no longerons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Originage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
ome soils onditions e present.  /DROLO /etland Hy rimary India _ Surface _ High Wa Saturati / Water M Sedime _ Drift De Surface _ Inundati _ Water-Sield Obser urface Water Table aturation Pincludes ca	may have been way. Therefore, soils  OGY  Indrology Indicator Cators (minimum or Water (A1) Indre Table (A2) Indre Table (A2) Indre Table (B2) Indre Table (B2) Indre Table (B2) Indre Table (B3) Indre Table (B3) Indre Table (B3) Indre Table (B4)	vetter than con site are rs: f one require verine) al Imagery (E	ed; check all that app  ded; check all that app  Salt Cruster Biotic Cruster Aquatic Ir Hydrogen Oxidized Presence Recent Ir Rother (Ex	hese fea relic and relication (B11) ast (B12) avertebrate Sulfide Con Reductor Reductor Reductor Reductor Reductor Reductor Relication (Relication Relication Re	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	Living Ro	sthat formed ed even thought rent condition  Second	d in the recent or distant past where the wetland hydrology may no longer ons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Oriff Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
present.  DROLO etland Hy imary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-Seld Obser urface Wat ater Table	may have been way. Therefore, soils  OGY  Indrology Indicator Cators (minimum or Water (A1) Indre Table (A2) Indre Table (A2) Indre Table (B2) Indre Table (B2) Indre Table (B2) Indre Table (B3) Indre Table (B3) Indre Table (B3) Indre Table (B4)	vetter than con site are rs: f one require verine) al Imagery (E	ed; check all that app  ded; check all that app  Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Other (Ex	hese fea relic and relication (B11) ast (B12) avertebrate Sulfide Con Reductor Reductor Reductor Reductor Reductor Reductor Relication (Relication Relication Re	es (B13) Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	Living Ro	sthat formed ed even thought rent condition  Second	d in the recent or distant past when the set wetland hydrology may no longer ons.  Indary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: Salton Sea SCH Proj	ect	City	/County: Imperial			Sampling Date:	8-16-11
Applicant/Owner: CDFG, CDWR, U	SACE			State:	CA	Sampling Point:	SP-11
Investigator(s): M. Simmons, I. W	atson	Sec	tion, Township, Rai	nge: <u>26 / 12S /</u>	12E		
Landform (hillslope, terrace, etc.): s	horeline	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0</u> -					
Subregion (LRR): D- Interior Desc	erts	Lat: 33.092	.84	Long: -115.70	00786	Datum	: Dec. deg.
Soil Map Unit Name: Imperial silty							
Are climatic / hydrologic conditions of							
Are Vegetation, Soil		_				resent? Yes <u>√</u>	No
Are Vegetation, Soil				eded, explain ar			
					-		4
SUMMARY OF FINDINGS –	Attach site mar	snowing sa	mpling point i	ocations, tra	insects,	important rea	tures, etc.
Hydrophytic Vegetation Present?	Yes <u>√</u>	No	Is the Sampled	Aroa			
Hydric Soil Present?	Yes		within a Wetlar		/es	No <u>√</u>	
Wetland Hydrology Present?	Yes	No <u>√</u>	Within a Wotlar				
Remarks:							
<b>VEGETATION</b> – Use scienti	ific names of pla	nts.					
	·	Absolute Do	ominant Indicator	Dominance T	est works	sheet:	
Tree Stratum (Plot size:	)	% Cover Sp	oecies? Status	Number of Do	minant Sp	ecies	
1				That Are OBL,	, FACW, c	or FAC:1	(A)
2				Total Number	of Domina		
3				Species Acros	s All Strat	a: <u>1</u>	(B)
4				Percent of Doi	minant Sp	ecies	
Sapling/Shrub Stratum (Plot size:	)	= 7	Total Cover	That Are OBL,	, FACW, c	or FAC: 100	(A/B)
Allenrolfea occidentalis		60	ves FACW	Prevalence In	idex work	sheet:	
2.				Total % C	over of:	Multiply	by:
3.						x 1 =	
4				FACW species	s	x 2 =	
5				FAC species		x 3 =	
		60 = 7	otal Cover	FACU species	;	x 4 =	
Herb Stratum (Plot size:	)			UPL species	-	x 5 =	
1				Column Totals	S:	(A)	(B)
2				Prevaler	ce Index	= B/A =	
3 4				Hydrophytic \			
5				✓ Dominand	•		
6				Prevalence			
7						otations <sup>1</sup> (Provide s	upporting
8.				data in		or on a separate s	•
		= 7		Problema	tic Hydrop	hytic Vegetation <sup>1</sup> (	Explain)
Woody Vine Stratum (Plot size: _	)			1			
1						and wetland hydro	
2				-	nooo alota	ibod of problemati	···
		= 7	otal Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum _	100 % Cov	er of Biotic Crust		Present?	Yes	s No	
Remarks:				1			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirr	n the absence	of indicators.)
Depth	Matrix			<u> Feature</u>		. 2	<b>-</b> .	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-8	2.5 Y 6/2	80	7.5 YR 5/8	25	<u>C</u>	_M	silty clay	
8-16	5 Y 6/2				·			
				-			-	
					- ——			
					<del></del>			
					·			
1= 0.0							. 2.	
			=Reduced Matrix, CS LRRs, unless other			ed Sand G		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		abio to aii	Sandy Redo		.00.,			Muck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped Ma					Muck (A10) (LRR B)
Black Hi			Loamy Muc		al (F1)			ced Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gley					arent Material (TF2)
Stratified	d Layers (A5) (LRR (	<b>S</b> )	✓ Depleted Ma	atrix (F3)			Other	(Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	(F6)			
	d Below Dark Surface	e (A11)	Depleted Da				2	
	ark Surface (A12)		Redox Depr		(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pools	s (F9)				hydrology must be present, listurbed or problematic.
-	_ayer (if present):						uniess c	disturbed of problematic.
	Edyor (ii prosent).							
	ches):						Hydric Soil	Present? Yes No <u>√</u>
Remarks:							Tiyane 301	rresent: resNov
								d in the recent or distant past when
								gh wetland hydrology may no longer
<u> </u>		ii site are	considered to be r	enc and	do not p	ortray cu	Trent condition	ons.
HYDROLO								
_	drology Indicators:							
Primary Indic	cators (minimum of o	ne require	d; check all that apply	/)			Seco	ndary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	` ′				Vater Marks (B1) (Riverine)
	iter Table (A2)		Biotic Crus					Sediment Deposits (B2) (Riverine)
Saturation			Aquatic Inv					Orift Deposits (B3) (Riverine)
	arks (B1) ( <b>Nonriver</b> i		Hydrogen					Orainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized R		_	_		Ory-Season Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence of					Crayfish Burrows (C8)
· · · · · · · · · · · · · · · · · · ·	Soil Cracks (B6)	(5)	Recent Iron			d Soils (C		Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial I	magery (B						Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Exp	lain in Re	emarks)		⊦	FAC-Neutral Test (D5)
Field Observ			N / D # #					
Surface Water			No ✓ Depth (inc					
Water Table			No <u>√</u> Depth (inc					
Saturation Procession (includes cap		es	No <u>√</u> Depth (inc	ches):		Wet	land Hydrolog	y Present? Yes No✓
		gauge, mo	onitoring well, aerial p	hotos, pi	revious ins	pections),	, if available:	
Remarks:							_	
•	• .	observ	ed are conside	ed reli	c trom	previou	is years hyd	drology and not an indicator
of recent	hydrology.							

Project/Site: Salton Sea SCH Project	City	/County: Imperial		Sa	ampling Date:	8-17-11	
Applicant/Owner: CDFG, CDWR, USACE			State:	CA Sa	ampling Point: _	SP-12	
Investigator(s): M. Simmons, I. Watson	Sec	ction, Township, Ra	inge: <u>26 / 125 / 1</u>	12E			
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave, convex, none): <u>concave</u> Slope						
Subregion (LRR): D- Interior Deserts							
Soil Map Unit Name: Imperial-glenbar silty clay loa			=				
Are climatic / hydrologic conditions on the site typical for		,					
Are Vegetation, Soil, or Hydrology			"Normal Circumsta			No	
Are Vegetation, Soil, or Hydrology			eeded, explain any				
SUMMARY OF FINDINGS – Attach site m						ituros otc	
			- Cations, trai	130013, 11			
	No	Is the Sampled	d Area				
	No <u> </u>	within a Wetla	nd? Ye	es	No		
Remarks:							
VEGETATION – Use scientific names of p	olants.						
Tree Stratum (Plot size:)		ominant Indicator oecies? Status	Dominance Te				
1			Number of Dom That Are OBL, I		cies FAC: 1	(A)	
2						(/ \/	
3.			Total Number o Species Across			(B)	
4						( )	
	=		Percent of Dom That Are OBL, I			) (A/B)	
Sapling/Shrub Stratum (Plot size:)	60	<b>5</b> 40	Prevalence Inc				
Tamarix ramosissima     Allenrolfea occidentalis	10	ves FAC roo FACW			Multiply	hv.	
Alleriforiea occidentalis     3.					x 1 =	-	
4					x 2 =		
5.					x 3 =		
	70 =	Total Cover	FACU species		x 4 =		
Herb Stratum (Plot size:)			UPL species	-	x 5 =		
1			Column Totals:		(A)	(B)	
2			Prevalenc	e Indev =	B/A =		
3			Hydrophytic V				
4.         5.			✓ Dominance	_			
6			Prevalence				
7.			Morphologi	cal Adapta	tions <sup>1</sup> (Provide s		
8.					r on a separate s	,	
		Total Cover	Problemation	c Hydrophy	rtic Vegetation <sup>1</sup> (	Explain)	
Woody Vine Stratum (Plot size:)			1		- d 41 d J d		
1					nd wetland hydro ed or problemati		
2			Hydrophytic		·		
	=		Vegetation				
	Cover of Biotic Crus	t	Present?	Yes _	No		
Remarks:							

Profile Desc	cription: (Describe	to the de	oth needed to docum	ent the	indicator	or confir	n the absence of in	dicators.)		
Depth	Matrix		Redox	c Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	10 YR 5/2	100	none	0	<u>C</u>	_M	silty clay 🔠			
4-8	10 YR 5/1	80	10 YR 5/8	20	С	M	silty clay			
8-16	10 YR 5/1	75	10 YR 5/8	25	С	M	silty clay			
								_		
1Typo: C=C	ancontration D=Dor	olotion DM	I=Boducod Motrix, CS	-Covere	d or Coate	d Sand C	raina <sup>2</sup> l coation	: PL=Pore Lining, M=Matrix.		
			=Reduced Matrix, CS I LRRs, unless other			u Sanu G		Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Redo		,		1 cm Muck	-		
	oipedon (A2)		Stripped Ma					(A10) ( <b>LRR B</b> )		
	stic (A3)		Loamy Muck	, ,	al (F1)		Reduced Ve	, , , ,		
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent	Material (TF2)		
	d Layers (A5) ( <b>LRR</b>	C)	✓ Depleted Ma				Other (Expl	ain in Remarks)		
	ick (A9) (LRR D)	- (0.4.4)	Redox Dark		` '					
	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Da Redox Depre				<sup>3</sup> Indicators of by	drophytic vegetation and		
	Mucky Mineral (S1)		Vernal Pools		(10)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	Gleyed Matrix (S4)			(. 0)			-	ped or problematic.		
	Layer (if present):									
Type:										
Depth (inc	ches):						Hydric Soil Pres	ent? Yes No <u>√</u>		
Remarks:							_ L			
Some soils i	in the Arid West e	xhihit rec	loximornhic feature	s and h	vdric soil	indicator	rs that formed in th	ne recent or distant past when		
								etland hydrology may no longer		
			considered to be re							
HYDROLO	GY									
	drology Indicators	:								
-	-		ed; check all that apply	<b>'</b> )			Secondary	Indicators (2 or more required)		
Surface	•		✓ Salt Crust (	•			Water Marks (B1) (Riverine)			
· <del></del>	ater Table (A2)		Biotic Crus	,				ent Deposits (B2) ( <b>Riverine</b> )		
Saturation	, ,		Aquatic Inv		es (B13)			eposits (B3) (Riverine)		
Water M	larks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen S					ge Patterns (B10)		
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized R	hizosphe	eres along	Living Ro	ots (C3) Dry-Se	eason Water Table (C2)		
✓ Drift Dep	oosits (B3) ( <b>Nonrive</b>	erine)	Presence of	of Reduce	ed Iron (C4	1)	Crayfis	sh Burrows (C8)		
✓ Surface	Soil Cracks (B6)		Recent Iron	n Reduct	ion in Tille	d Soils (C	6) Satura	tion Visible on Aerial Imagery (C9)		
Inundati	on Visible on Aerial	Imagery (E	· —		. ,			w Aquitard (D3)		
	tained Leaves (B9)		Other (Exp	lain in Re	emarks)		FAC-N	leutral Test (D5)		
Field Obser										
Surface Water			No Depth (inc			1				
Water Table			No Depth (inc			1		,		
Saturation Projection (includes cap	resent?	/es	No Depth (inc	:hes):		Wet	land Hydrology Pre	sent? Yes No <u>√</u>		
		n gauge, m	onitoring well, aerial p	hotos, pr	revious ins	pections),	, if available:			
	,	5 0 .	<b>5</b> / F	, ,		. ,,				
Remarks:										
								I		
The hydro	ology indicator	s observ	ed are consider	ed reli	ic from	previou	ıs vears hydrolo	ogy and not an indicator		

Project/Site: Salton Sea SCH Proj	ect	C	City/County: Imperial			Sampling Date:	8-17-11
Applicant/Owner: CDFG, CDWR, U	SACE			State:	CA	Sampling Point:	SP-13
Investigator(s): M. Simmons		8	Section, Township, Ra	ange: <u>26 / 12S /</u>	12E		
Landform (hillslope, terrace, etc.): s	horeline	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0</u> -					
Subregion (LRR): D- Interior Des	erts	Lat: <u>33.1</u>	.047217	_ Long: <u>-115.6</u>	88695	Datum	ı: Nad 83
Soil Map Unit Name: Not available	е			NW	'I classific	ation: L1UBH	
Are climatic / hydrologic conditions of	on the site typical for	or this time of yea	r? Yes  ✓ No _	(If no, ex	plain in R	emarks.)	
Are Vegetation, Soil		_				resent? Yes <u>√</u>	No
Are Vegetation, Soil				eeded, explain ar			
SUMMARY OF FINDINGS -					-		itures, etc.
Hydrophytic Vegetation Present?	Yes	No <b>✓</b>	In the Orientee	1 4			
Hydric Soil Present?		No ✓	Is the Sampled within a Wetlan		/oc	No <u></u> ✓	
Wetland Hydrology Present?	Yes	No <u></u> ✓	within a wetia	iid:		NO	
Remarks:							
VEGETATION – Use scient	ific names of p	olants.					
			Dominant Indicator	Dominance T	est work	sheet:	
Tree Stratum (Plot size:			Species? Status	Number of Do			(4)
1				That Are OBL	, FACW, (	or FAC:	(A)
2 3				Total Number Species Acros			(B)
4				Percent of Do	minant Sp	pecies	
Sapling/Shrub Stratum (Plot size:	)		= Total Cover	That Are OBL	, FACW, (	or FAC:	(A/B)
1				Prevalence In	idex wor	ksheet:	
2						Multiply	
3						x 1 =	
4						x 2 =	
5						x 3 =	
Herb Stratum (Plot size:	)		= Total Cover	-		x 4 = x 5 =	
1	,						
2						, ,	
3						= B/A =	
4				1	-	on Indicators:	
5				Dominand			
6				Prevalenc		s ≤3.0° otations¹ (Provide s	
7						s or on a separate s	
8				Problema	tic Hydro	ohytic Vegetation¹ (	Explain)
Woody Vine Stratum (Plot size: _	)		= Total Cover				
1						l and wetland hydrourbed or problemation	
2			= Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum _	100 % (			Vegetation Present?	Ye	s No_ <u></u>	<u>/</u>
Remarks:							

Profile Desc	cription: (Describe	to the de	pth needed to docun	nent the	indicator	or confir	m the absence of	indicators.)			
Depth	Matrix			K Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks			
0-8	2.5 Y 5/1	80	10 YR 5/8	20	<u>C</u>	_M	clay loam_				
8-16	2.5 Y 5/2	80	7.5 YR 4/6	20	C	M	clay loam				
					<u> </u>						
		_						_			
		-									
1 0 0							21 1	BL B. J. J. AAAAA			
			I=Reduced Matrix, CS I LRRs, unless other			ed Sand G		ion: PL=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :			
Histosol		cable to al	Sandy Redo		iou.,			ck (A9) (LRR C)			
	oipedon (A2)		Stripped Ma					ck (A10) (LRR B)			
	stic (A3)		Loamy Mucl		al (F1)			Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gley	-				ent Material (TF2)			
	d Layers (A5) (LRR	C)	✓ Depleted Ma				Other (Ex	rplain in Remarks)			
	ıck (A9) ( <b>LRR D</b> )		Redox Dark		,						
	d Below Dark Surfac	ce (A11)	Depleted Da				31	hudaankutia waatatian and			
	ark Surface (A12)  Mucky Mineral (S1)		Redox Depr Vernal Pools		(F8)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,				
	Gleyed Matrix (S4)		vernari ook	s (i 5)				urbed or problematic.			
	Layer (if present):							'			
Type:											
Depth (in	ches):						Hydric Soil Pr	resent? Yes No <u>√</u>			
Remarks:											
Some soils	in the Arid West e	xhihit red	loximorphic feature	s and h	vdric soil	indicator	rs that formed in	the recent or distant past when			
								wetland hydrology may no longer			
			considered to be r								
HYDROLO	GY										
	drology Indicators	•									
-			ed; check all that apply	<b>(</b> )			Seconda	ary Indicators (2 or more required)			
	Water (A1)		✓ Salt Crust					er Marks (B1) ( <b>Riverine</b> )			
<del></del>	ater Table (A2)		Biotic Crus	` ′				iment Deposits (B2) (Riverine)			
Saturation	` '		Aquatic Inv		es (B13)			Deposits (B3) ( <b>Riverine</b> )			
	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen					nage Patterns (B10)			
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized R	hizosphe	eres along	Living Ro	ots (C3) Dry-	Season Water Table (C2)			
Drift Dep	oosits (B3) ( <b>Nonrive</b>	erine)	Presence of	of Reduc	ed Iron (C4	1)	Cray	fish Burrows (C8)			
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6) Satu	ration Visible on Aerial Imagery (C9)			
Inundati	on Visible on Aerial	Imagery (E			. ,		Sha	llow Aquitard (D3)			
	tained Leaves (B9)		Other (Exp	lain in Re	emarks)		FAC	C-Neutral Test (D5)			
Field Obser			,								
Surface Wat			No <u>✓</u> Depth (inc								
Water Table			No <u>✓</u> Depth (inc								
Saturation P (includes cap		res	No <u>✓</u> Depth (inc	:hes):		_   Wet	land Hydrology F	Present? Yes No			
		n gauge, m	nonitoring well, aerial p	hotos, p	revious ins	pections)	, if available:				
	•	-	- '			,					
Remarks:											
The hydro	ology indicator	s observ	ved are consider	ed reli	ic from	previou	ıs vears hvdro	ology and not an indicator			

Project/Site: Salton Sea SCH Project	City/0	County: <u>Imperial</u>		Sampling Date: 8-17-11			
Applicant/Owner: CDFG, CDWR, USACE			State: CA	Sampling Point:SP-14			
Investigator(s): R. Alvidrez, M. Mazon	Secti	Section, Township, Range: 23 / 125 / 12E					
Landform (hillslope, terrace, etc.): shoreline	Loca	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>C</u>					
Subregion (LRR): D - Interior Deserts	Lat: <u>33.110</u> 3	30	_ Long: <u>-115.68786</u>	Datum: Nad 83			
Soil Map Unit Name: Not available			NWI class	ification: L1UBH			
Are climatic / hydrologic conditions on the site typ	cal for this time of year? `	Yes <u>√</u> No _	(If no, explain ir	n Remarks.)			
Are Vegetation, Soil, or Hydrology				s" present? Yes _ ✓ No			
Are Vegetation, Soil, or Hydrolog			eeded, explain any ans	wers in Remarks.)			
SUMMARY OF FINDINGS - Attach s			ocations, transec	ts, important features, etc.			
Hydrophytic Vegetation Present? Yes _	✓ No	l- 4b- 0l-	1.4				
	✓ No	Is the Sampled within a Wetlan		✓ No			
Wetland Hydrology Present? Yes _	✓ No	within a wetian	iid: Tes	<u> </u>			
Remarks:							
VEGETATION – Use scientific names	of plants						
VEGETATION - 03c 3cicitatic fiames		minant Indicator	Dominance Test wo	nrkshoot:			
Tree Stratum (Plot size:)		ecies? Status	Number of Dominant				
1			That Are OBL, FACV				
2			Total Number of Don	ninant			
3			Species Across All S	Strata: 1 (B)			
4			Percent of Dominant				
Sapling/Shrub Stratum (Plot size:	= To	otal Cover	That Are OBL, FACV	V, or FAC:100 (A/B)			
1. Allenolfrea occidentaris		ves FACW	Prevalence Index w	orksheet:			
2. Atriplex lentiformis			Total % Cover o	f: Multiply by:			
3			OBL species	x 1 =			
4			FACW species	x 2 =			
5				x 3 =			
Horb Stratum (Diet eizer	<u>65</u> = To	otal Cover		x 4 =			
Herb Stratum (Plot size:) 1				x 5 =			
2.			Column Totals:	(A) (B)			
3.			Prevalence Ind	lex = B/A =			
4.			Hydrophytic Vegeta	ation Indicators:			
5.			✓ Dominance Test	i is >50%			
6			Prevalence Inde				
7			Morphological A	daptations <sup>1</sup> (Provide supporting			
8				arks or on a separate sheet) drophytic Vegetation¹ (Explain)			
Mandy Vine Stratum (Plot size:	= To	otal Cover	i iobiematic riyo	Tophytic vegetation (Explain)			
Woody Vine Stratum (Plot size:			<sup>1</sup> Indicators of hydric	soil and wetland hydrology must			
2.				isturbed or problematic.			
	= To		Hydrophytic				
% Bare Ground in Herb Stratum100			Vegetation	Voc √ No			
	70 COVEL OF DIOLIC CHUST		LIESELL	Yes No			
Remarks:							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

—
_
_
_
_
_
9)
<u> </u>
<u> </u>

Project/Site: Salton Sea SCH Project	City/County: Imperia	<u> </u>	Sampling Date:	8-17-11			
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-15			
Investigator(s): R. Alvidrez, M. Mazon	Section, Township, Ra	Section, Township, Range: 23 / 125 / 12E					
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave, convex, none): concave Slope (%):						
Subregion (LRR): D - Interior deserts							
Are climatic / hydrologic conditions on the site typical for	,						
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances"	_	No			
Are Vegetation, Soil, or Hydrology		eeded, explain any answe					
				4			
SUMMARY OF FINDINGS – Attach site m	nap snowing sampling point	ocations, transects	s, important rea	itures, etc.			
	_ No✓ Is the Sample	d Area					
	No within a Wetla		No <u>√</u>				
	_ No						
Remarks:							
VEGETATION – Use scientific names of p	plants.						
	Absolute Dominant Indicator	Dominance Test work	sheet:				
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S					
1		That Are OBL, FACW,		(A)			
2		Total Number of Domir	nant				
3		Species Across All Stra	ata:	(B)			
4		Percent of Dominant S					
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC:	(A/B)			
1		Prevalence Index wor	rksheet:				
2.		Total % Cover of:	Multiply	by:			
3		OBL species	x 1 =				
4		FACW species	x 2 =				
5		FAC species					
Harb Stratum (Diet eizer	= Total Cover	FACU species					
Herb Stratum (Plot size:)		UPL species					
1 2		Column Totals:	(A)	(B)			
3.		Prevalence Index	c = B/A =				
4.		Hydrophytic Vegetati	on Indicators:				
5		Dominance Test is					
6		Prevalence Index					
7			aptations <sup>1</sup> (Provide s				
8		Problematic Hydro	s or on a separate s	•			
Manda Vine Charles (Diet sine)	= Total Cover	Floblematic Hydro	priylic vegetation (	Lxpiaiii)			
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric so	il and wetland hydro	ology must			
1 2		be present, unless dist					
	= Total Cover	Hydrophytic					
0/ Bara Crayad in Harb Chartura 100 0/ 6		Vegetation	a Na	/			
	Cover of Biotic Crust	Present? Ye	es No_ <u>v</u>	·			
Remarks:							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-6	5 Y 6/2	70	2.5 YR 4/8	30	_ <u>C</u>		silt/clay	loam clay 30%
6-12	<u>5 Y 6/2</u>	70	2.5 YR 3/4	_ 5	<u></u>		silty/clay	clay 90% (loam)
6-12	5 Y 6/2	70	gley 1 3/10 GY	25	C			
12-18	5 Y 6/2	40	gley 1 3/10 GY	60	<u>C</u>		silty/clay	clay 30% (loam)
Hydric Soil  Histosc Histic E Black F Hydrog Stratifie 1 cm M Deplete Thick D Sandy Sandy	Indicators: (Apple) Indicators: (Apple) Indicators: (Apple) Indicators: (A2) Indicators: (A2) Indicators: (A3) Indicators: (A4) Indicators: (A	R C) ace (A11)	M=Reduced Matrix, CS II LRRs, unless othe  Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Vernal Pool	rwise no ox (S5) atrix (S6) sky Miner yed Matri atrix (F3) c Surface ark Surfa ressions	al (F1) x (F2) ) (F6) ce (F7)	ed Sand G	Indicators  1 cm N 2 cm N Reduce Red P Other	cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils³:  Muck (A9) (LRR C)  Muck (A10) (LRR B)  ced Vertic (F18)  arent Material (TF2)  (Explain in Remarks)  of hydrophytic vegetation and hydrology must be present, listurbed or problematic.
	OGY							
	/drology Indicator	's:						
			ed; check all that appl	y)			Seco	ndary Indicators (2 or more required)
	Water (A1)		_✓ Salt Crust	-				Vater Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Crus	st (B12)			s	Sediment Deposits (B2) (Riverine)
Saturat	ion (A3)		✓ Aquatic In	vertebrat	es (B13)		0	Orift Deposits (B3) (Riverine)
Water I	Marks (B1) ( <b>Nonriv</b>	erine)	Hydrogen	Sulfide C	Odor (C1)		[	Prainage Patterns (B10)
	ent Deposits (B2) (N		· —		-	-		Ory-Season Water Table (C2)
	eposits (B3) (Nonri	verine)	Presence		,	,		Crayfish Burrows (C8)
	e Soil Cracks (B6)		Recent Iro			ed Soils (C	· —	Saturation Visible on Aerial Imagery (C9)
_	tion Visible on Aeria	0 , (	, <u>—</u>		. ,			Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Obse	Stained Leaves (B9	')	Other (Exp	Jiaili III K	emarks)	1		AC-Neutral Test (D5)
	ter Present?	Vas	No Depth (in	ches).				
Water Table		· ·	No Depth (in					
Saturation F	Present?	Yes	No Depth (in	ches):		Wet	, ,	y Present? Yes <u>√</u> No
Describe Re	ecorded Data (strea	am gauge, n	nonitoring well, aerial	photos, p	revious ins	spections),	, it available:	
Remarks:								

Project/Site: Salton Sea SCH Project	City/County: Imperia	al	Sampling Date:	8-16-11		
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-16		
Investigator(s): R. Alvidrez, M. Mazon	Section, Township, R	ange: 23 / 12S / 12E				
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave, convex, none): <u>concave</u> Slope (%)					
Subregion (LRR): <u>D - Interior Deserts</u>						
		=				
Are climatic / hydrologic conditions on the site typical for	,					
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No		
Are Vegetation, Soil, or Hydrology		needed, explain any answe				
SUMMARY OF FINDINGS – Attach site ma		-		itures. etc.		
			,,			
	No Is the Sample	d Area				
	No within a Wetla	and? Yes <u>√</u>	No			
Remarks:						
outer edge of access road on east side						
outer eage or access road on east side						
VECETATION . He exicutific names of pl	lanta					
VEGETATION – Use scientific names of pl	Absolute Dominant Indicator	Dominance Test work	rehoot:			
Tree Stratum (Plot size:)	% Cover Species? Status					
1. Tamarix ramosissima	10 yes FAC			(A)		
2		Total Number of Domin	nant			
3		Species Across All Stra		(B)		
4		Percent of Dominant S				
Sapling/Shrub Stratum (Plot size:)	10 = Total Cover	That Are OBL, FACW,	or FAC:100	(A/B)		
1. Tamarix ramosissima	30yesFAC	Prevalence Index wor	ksheet:			
2.		Total % Cover of:	Multiply	by:		
3		OBL species	x 1 =			
4		FACW species	x 2 =			
5		FAC species				
Herb Stratum (Plot size:)	= Total Cover	FACU species				
1		UPL species				
2.		Column Totals:	(A)	(B)		
3.		Prevalence Index	= B/A =			
4		Hydrophytic Vegetation	on Indicators:			
5		✓ Dominance Test is				
6		Prevalence Index i				
7			ptations <sup>1</sup> (Provide s s or on a separate s			
8		Problematic Hydro		•		
Woody Vine Stratum (Plot size:)	= Total Cover		. ,	, ,		
1		<sup>1</sup> Indicators of hydric soi				
2.		be present, unless distu	urbed or problemati	C.		
	= Total Cover	Hydrophytic				
% Bare Ground in Herb Stratum 100 % Co	over of Biotic Crust	Vegetation Present? Ye	sNo			
Remarks:						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

	Matrix			k Features			
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u> Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	5 Y 5/6	75				sandy/lo <b></b> ∎	
4-17	Gley 2 2.5/10B	80		·		clay loam	mucky
17-18	Gley 2 4/5 PB	10				clay loam	mucky
		·			<u> </u>		
		· <del></del>					
	-	· — — —					
		· — — —					
	oncentration, D=Dep				ted Sand Gr		cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LF	RRs, unless other	wise noted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo				Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma	trix (S6) cy Mineral (F1)			Muck (A10) (LRR B)
	istic (A3) en Sulfide (A4)			ed Matrix (F2)			ed Vertic (F18) arent Material (TF2)
	d Layers (A5) ( <b>LRR (</b>	3)	Depleted Ma			·	(Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /		Surface (F6)			(=
Depleted	d Below Dark Surfac	e (A11)	Depleted Da	ırk Surface (F7)			
	ark Surface (A12)			essions (F8)			of hydrophytic vegetation and
-	Mucky Mineral (S1)		Vernal Pools	s (F9)			hydrology must be present,
	Gleyed Matrix (S4)  Layer (if present):					uniess d	isturbed or problematic.
Type:	Layer (ii present).						
Depth (in						Hydric Soil	Present? Yes ✓ No
Remarks:	ones).					Tryuno con	11000111. 100 <u>-v</u> 110
rtomanto.							
HYDROLO							
Wetland Hy	drology Indicators:						
Wetland Hy	drology Indicators: cators (minimum of c	ne required; o	••••	•			ndary Indicators (2 or more required)
Wetland Hydromary Indice	drology Indicators: cators (minimum of c Water (A1)	ne required; o	✓ Salt Crust (	(B11)		v	/ater Marks (B1) (Riverine)
Wetland Hy Primary India Surface High Wa	drology Indicators: cators (minimum of c Water (A1) ater Table (A2)	ne required; o	✓ Salt Crust (	(B11) t (B12)		v	/ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> )
Wetland Hyder Primary India Surface High Wa ✓ Saturatio	drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3)		✓ Salt Crust ( Biotic Crus Aquatic Inv	(B11) t (B12) vertebrates (B13)		v s d	/ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> )
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M	drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver	ine)	✓ Salt Crust ( Biotic Crus Aquatic Inv Hydrogen \$	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1)		W S D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen	drology Indicators: cators (minimum of control of contr	ine) nriverine)	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along	_	W S D D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2)
Wetland Hy Primary India Surface High Wa ✓ Saturatia ✓ Water M Sedimer Drift Dep	drology Indicators: cators (minimum of control of cators (Minimum of control of cators (Marian Marks (B1) (Nonriver of Deposits (B2) (Nonriver of Cators (B3) (Nonriver of	ine) nriverine)	✓ Salt Crust ( Biotic Crus Aquatic Inv _/ Hydrogen S Oxidized R Presence co	(B11) t (B12) vertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C	C4)	W S D D ots (C3) D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface	drology Indicators: cators (minimum of control of contr	ine) nriverine) rine)	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence co Recent Iror	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C) Reduction in Till	C4)	W S D D C C S) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimer Drift Dep ✓ Surface Inundati	drology Indicators: cators (minimum of composition (A2) on (A3) Marks (B1) (Nonriver on the Deposition (B2) (Nonriver on the Deposition (B3) (Nonriver on the Deposit	ine) nriverine) rine)	✓ Salt Crust (	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (Cn) Reduction in Till Surface (C7)	C4)	W S D D tts (C3) D C S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimer Drift Dep ✓ Surface Inundati	drology Indicators: cators (minimum of comparison of compa	ine) nriverine) rine)	✓ Salt Crust (	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C) Reduction in Till	C4)	W S D D tts (C3) D C S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimer Drift Der ✓ Surface Inundati Water-S	drology Indicators: cators (minimum of composite (A1) ater Table (A2) on (A3) flarks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) revations:	ine) nriverine) rine) magery (B7)	✓ Salt Crust (	(B11) t (B12) vertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (Cn) n Reduction in Till Surface (C7) lain in Remarks)	C4) ed Soils (C6	W S D D tts (C3) D C S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface Inundati Water-S Field Obser	drology Indicators: cators (minimum of composite (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (Nonriver soil Cracks (B6) ion Visible on Aerial Instance Leaves (B9) revations: iter Present?	ine) nriverine) rine) magery (B7) es No	✓ Salt Crust (	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (Cn) Reduction in Till Surface (C7) lain in Remarks)	C4) ed Soils (C6	W S D D S C S) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimer Drift Der ✓ Surface Inundati Water-S Field Obser Surface Water Table	drology Indicators: cators (minimum of composite (A2) on (A3) Marks (B1) (Nonriver on the Deposite (B2) (Nonriver on Visible on Aerial Instance Leaves (B9) vations: ter Present?  Yersent?  Water (A1) (Nonriver on (A3) (Nonriver	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (Cn Reduction in Till Surface (C7) lain in Remarks) sches):	c4) ed Soils (C6	W S D D sts (C3) D C S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface  High Wa ✓ Saturatia ✓ Water M  Sedimen  Drift Dep ✓ Surface  Inundati  Water-S Field Obser  Surface Wat  Water Table  Saturation P (includes cap	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India  Surface  High Wa ✓ Saturatia ✓ Water M  Sedimen  Drift Dep ✓ Surface  Inundati  Water-S Field Obser  Surface Wat  Water Table  Saturation P (includes cap	drology Indicators: cators (minimum of composite (A2) on (A3) Marks (B1) (Nonriver on the Deposite (B2) (Nonriver on Visible on Aerial Indicators: cators (minimum of composite (B3) (Nonriver on Visible on Aerial Indicators: cators (B9) vations: cators (Present?  Yeresent?  Water (A2)	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface Inundatia Water-S Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface  High Wa ✓ Saturatia ✓ Water M  Sedimen  Drift Dep ✓ Surface  Inundati  Water-S Field Obser  Surface Wat  Water Table  Saturation P (includes cap	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence co Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence co Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface High Wa ✓ Saturatia ✓ Water M Sedimen Drift Dep ✓ Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of composits (A2) on (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B3) (Nonriver of the Deposits (B4) (Nonriver of the Dep	ine) nriverine) rine) magery (B7) es No es No	✓ Salt Crust ( Biotic Crus Aquatic Inv ✓ Hydrogen S Oxidized R Presence co Recent Iror Thin Muck Other (Exp	(B11) t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along of Reduced Iron (C n Reduction in Till Surface (C7) lain in Remarks) ches):	C4) ed Soils (C6	W S D D S S S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Salton Sea SCH Project	City/County: Imperia		Sampling Date:	8-16-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point:	SP-17
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>23 / 12E / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slope	e (%): <u>0-2</u>
Subregion (LRR): D- Interior Deserts				
		=		
Are climatic / hydrologic conditions on the site typical fo				
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site m				tures. etc.
			, ,	<b>,</b>
	No Is the Sampled		,	
	No within a Wetla	nd? Yes <u>√</u>	No	
Remarks:				
VEGETATION	Lauria			
VEGETATION – Use scientific names of p		<del> </del>		
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,		(A)
2		Total Number of Domin	ant	
3		Species Across All Stra		(B)
4		Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,		(A/B)
1. Tamarix ramosissima	100 yes FAC	Prevalence Index wor	ksheet:	
2		Total % Cover of:		oy:
3.		OBL species		-
4.		FACW species		
5		FAC species	x 3 =	
	= Total Cover	FACU species		
Herb Stratum (Plot size:)		UPL species		
1		Column Totals:	(A)	(B)
2		Prevalence Index	z = B/A =	
4.		Hydrophytic Vegetation		
5.		✓ Dominance Test is	>50%	
6.		Prevalence Index i	s ≤3.0 <sup>1</sup>	
7			ptations <sup>1</sup> (Provide su	
8		Problematic Hydro	s or on a separate sl	,
Woody Vine Stratum (Plot size:)	= Total Cover	1 Toblematic Hydro	priyuc vegetation (t	_xpiaii1)
1		<sup>1</sup> Indicators of hydric soi	il and wetland hydrol	ogy must
2.		be present, unless distr		
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 100 % C	Cover of Biotic Crust	Vegetation Present? Ye	s√ No	
Remarks:	POACE OF DIOTIC CLAST	rieseitt: 16	.s <u>v</u> NU	_
i Nomario.				

Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10 YR 4/3	100	10 YR 5/6	10	C	M	sandy loa	
<i>j</i> -0	10 11( 4/3	100	10 11 3/0	_ 10		171	Sarray rod	
-								
		_			-	-		
	-					-		
	-		-				-	
	-			_				
Type: C=Co	oncentration, D=De	pletion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
			LRRs, unless other					for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	lox (S5)			1 cm N	Muck (A9) (LRR C)
 Histic Ep	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
Black His	stic (A3)		Loamy Mu	cky Minera	ıl (F1)		Reduc	ced Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red P	arent Material (TF2)
	l Layers (A5) ( <b>LRR</b>	C)	✓ Depleted N	, ,			Other	(Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )		Redox Dar		` '			
	Below Dark Surfa	ce (A11)	Depleted D				31	of handron had a constation and
	ark Surface (A12)		Redox Dep	,	F8)			of hydrophytic vegetation and
	lucky Mineral (S1) leyed Matrix (S4)		Vernal Poo	)IS (F9)				hydrology must be present, listurbed or problematic.
							111033 0	instance of problematic.
	_ayer (if present):							
Restrictive L	ayer (if present):							
Restrictive L			<u>-</u>				Hydric Soil	Present? Yes ✓ No
Type: Depth (inc			<u>-</u>				Hydric Soil	Present? Yes <u>√</u> No
Restrictive L Type: Depth (inc			<u>-</u>				Hydric Soil	Present? Yes <u>√</u> No
Restrictive L Type: Depth (inc	ches):		<u>-</u>				Hydric Soil	Present? Yes <u>√</u> No
Restrictive L Type: Depth (incommerks:	ches):		<u>-</u>				Hydric Soil	Present? Yes <u>√</u> No
Type: Depth (incommerce) Remarks:  YDROLOG	GY drology Indicators	:	<u>-</u>	lly)				Present? Yes _ ✓ No
Type: Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic	GY drology Indicators	:					<u>Secor</u> V	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Type: Depth (inc Remarks:  YDROLOG Wetland Hyc Surface	GY drology Indicators	:	d; check all that app	t (B11)			<u>Secor</u> V	ndary Indicators (2 or more required)
Type: Depth (inc Remarks:  YDROLOG Wetland Hyc Primary Indic Surface	GY drology Indicators eators (minimum of Water (A1) ter Table (A2)	:	d; check all that app Salt Crus	t (B11) ist (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Type: Depth (incommerce)  YDROLOGITIES  Wetland Hyde  Primary Indicommerce  High Wa  Saturation	GY drology Indicators eators (minimum of Water (A1) ter Table (A2)	: one require	d; check all that app Salt Crus Biotic Cru	t (B11) ist (B12) nvertebrate	` ,		Secon	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (inc Remarks:  YDROLOG Wetland Hyc Primary Indic Surface \( \) High Wa Saturatic Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	: one require rine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Ro	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Type: Depth (inc Remarks:  YDROLOG Wetland Hyc Primary Indic Surface ' High Wa Saturatic Water M Sedimen	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive	: one require rine) onriverine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1) eres along	_	Secon V S D D ots (C3) D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Type: Depth (inc Remarks:  YDROLOG Wetland Hyc Primary Indic Surface \( \) High Wa Saturatic Water M Sedimen Drift Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	: one require rine) onriverine)	d; check all that app Salt Crus Biotic Cru ✓ Aquatic Ir Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrate a Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	Secor V S S S S S S S S S S S S S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Type: Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	: one require rine) onriverine)	d; check all that app Salt Crus Biotic Cru ✓ Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (Co on in Tille	4)	Secor V S S C C Cots (C3) C C C C C C C C C C C C C C C C C C C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (incomplete incomplete inc	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6)	: one require rine) onriverine) erine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (Co on in Tille (C7)	4)	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Type: Depth (ince) Remarks:  YDROLOG Wetland Hyco Primary Indice Surface of the Sediment of the Sed	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9)	: one require rine) onriverine) erine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface (	dor (C1) eres along ed Iron (Co on in Tille (C7)	4)	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type:	drology Indicators stators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	: one require rine) onriverine) erine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide Or Rhizosphe of Reduce on Reducti k Surface (	dor (C1) eres along ed Iron (C- eren in Tille (C7) emarks)	4) d Soils (C	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: one require rine) onriverine) erine) Imagery (B	d; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate n Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( plain in Re	dor (C1) eres along ed Iron (Ci on in Tille (C7) emarks)	4) d Soils (C	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	: one require prine) prine) Imagery (B	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) eres along ed Iron (Contine Tille (C7) emarks)	4) d Soils (C	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one require  rine) onriverine) erine) Imagery (B  Yes Yes	d; check all that app  Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li of Reduce lon Reducti k Surface ( liplain in Re linches):	dor (C1) eres along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Secor V S C C C C C C C C C S F F F I and Hydrolog	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one require  rine) onriverine) erine) Imagery (B  Yes Yes	d; check all that app  Salt Crus Biotic Cru ✓ Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li of Reduce lon Reducti k Surface ( liplain in Re linches):	dor (C1) eres along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Secor V S C C C C C C C C C S F F F I and Hydrolog	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one require  rine) onriverine) erine) Imagery (B  Yes Yes	d; check all that app  Salt Crus Biotic Cru ✓ Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li of Reduce lon Reducti k Surface ( liplain in Re linches):	dor (C1) eres along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Secor V S C C C C C C C C C S F F F I and Hydrolog	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one require  rine) onriverine) erine) Imagery (B  Yes Yes	d; check all that app  Salt Crus Biotic Cru ✓ Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li of Reduce lon Reducti k Surface ( liplain in Re linches):	dor (C1) eres along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Secor V S C C C C C C C C C S F F F I and Hydrolog	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Salton Sea SCH Project	City/County: Imperia	<u> </u>	Sampling Date:	8-17-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point:	SP-18
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>14 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slope	e (%): <u>0-2</u>
Subregion (LRR): D- Interior Deserts				
		=		
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site m				itures, etc.
			,	
	No Is the Sampled		_	
	No within a Wetla	nd? Yes <u>√</u>	No	
Remarks:				
VEGETATION – Use scientific names of p				
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,	pecies or FAC: 1	(A)
2.				
3		Total Number of Domin Species Across All Stra		(B)
4		Percent of Dominant S	necies	
Ocalia y Obash Otashura (Districa	= Total Cover	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:)  1. Tamarix ramosissima	60 yes EAC	Prevalence Index wor	ksheet:	
2		Total % Cover of:		bv.
3.		OBL species		-
4		FACW species		
5		FAC species		
	= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size:)		UPL species	x 5 =	
1		Column Totals:	(A)	(B)
2		Prevalence Index	= B/A =	
3 4		Hydrophytic Vegetation		
5		✓ Dominance Test is		
6.		Prevalence Index i	s ≤3.0 <sup>1</sup>	
7			ptations <sup>1</sup> (Provide s	
8			s or on a separate s	,
	= Total Cover	Problematic Hydro	pnytic vegetation (	Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soi	il and wetland hydro	alogy must
1		be present, unless distr		
2	= Total Cover	Hydrophytic		
100		Vegetation		
	Cover of Biotic Crust	Present? Ye	s <u>√</u> No	
Remarks:				

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix			ox Feature	S 1				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-4	10 YR 4/2	93	10 YR 5/6	7	C	M	clay loam		
4-14	7.5 YR 4/2	80	7.5 YR 5/8	10	С	M	silty clay		
	-	_	_		• •				
-	-		-						
	-						- <u></u>		
						· ——			
1			Deduced Metric O	0 0	-1 01	0 1 0	21 4:	DL Dans Linia a M Matrix	
			I=Reduced Matrix, C: I LRRs, unless othe			ed Sand G		PL=Pore Lining, M=Matrix.  roblematic Hydric Soils <sup>3</sup> :	
-		able to all			.eu.)			•	
Histosol	` '		Sandy Red				1 cm Muck (/		
	pipedon (A2)		Stripped Mag	, ,	J /E1)		Reduced Vei	A10) ( <b>LRR B</b> )	
Black His	n Sulfide (A4)		Loamy Gle	-				Material (TF2)	
	l Layers (A5) ( <b>LRR</b> (	C)	✓ Depleted M	-	(1 2)			in in Remarks)	
· —	ck (A9) ( <b>LRR D</b> )	<b>O</b> )	Redox Darl	, ,	(F6)		Оптот (Ехріа	ii iii remans)	
	Below Dark Surfac	e (A11)	Depleted D		, ,				
	rk Surface (A12)	- (	Redox Dep				3Indicators of hyd	rophytic vegetation and	
	lucky Mineral (S1)		Vernal Poo		•		-	ogy must be present,	
Sandy G	leyed Matrix (S4)						unless disturbe	ed or problematic.	
Restrictive L	ayer (if present):								
Type:									
Depth (inc	ches):						Hydric Soil Prese	ent? Yes √ No	
Remarks:	, -		<u> </u>				-		
HYDROLO(	GY								
Wetland Hyd	drology Indicators:	!							
_			ed; check all that app	lv)			Secondary I	ndicators (2 or more required)	)
Surface '			Salt Crust				-	Marks (B1) ( <b>Riverine</b> )	
	ter Table (A2)		Biotic Cru	,				nt Deposits (B2) ( <b>Riverine</b> )	
✓ Saturatio			✓ Aquatic In		se (R13)			posits (B3) (Riverine)	
	arks (B1) ( <b>Nonriver</b>	ino)	Hydrogen		, ,			e Patterns (B10)	
	it Deposits (B2) ( <b>No</b>				. ,	Living Do	_	ason Water Table (C2)	
	oosits (B3) ( <b>Nonrive</b>				-	_	· · · · ·		
		iiie)	Presence Recent Iro					n Burrows (C8)	(CO)
	Soil Cracks (B6)	lmagan, /F				u Solis (Co	•	on Visible on Aerial Imagery (	(09)
· <del></del>	on Visible on Aerial	imagery (E	· —					Aquitard (D3)	
	tained Leaves (B9)		Other (Ex	piain in Re	emarks)		FAC-NE	eutral Test (D5)	
Field Observ									
Surface Water			No <u>✓</u> Depth (in						
Water Table			No <u>✓</u> Depth (in						
Saturation Pr		′es <u> </u>	No Depth (in	nches): <u>6</u>		Wetl	land Hydrology Pres	ent? Yes <u>√</u> No	
(includes cap		n anuca m	onitoring well, aerial	nhotoe nr	evious in	enactions)	if available:		
Describe Nec	Corded Data (Stream	i gauge, iii	oriitoring well, aeriai	priotos, pr	evious iris	spections),	ii avallable.		
Remarks:									

Project/Site: Salton Sea SCH Project	City/County: Imperial	<u> </u>	Sampling Date:	8-16-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point:	SP-19
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>14 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slope	e (%): <u>0-2</u>
Subregion (LRR): D- Interior Deserts	Lat: <u>33.12754</u>	_ Long: -115.69314	Datum	: Nad 83
		-		
Are climatic / hydrologic conditions on the site typical fo	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
				4
SUMMARY OF FINDINGS – Attach site m	ap snowing sampling point i	ocations, transects	s, important fea	tures, etc.
	No Is the Sample	d Area		
	No within a Wetla		No	
	_ No			
Remarks:				
VEGETATION – Use scientific names of p	olants.			
	Absolute Dominant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S	pecies	
1		That Are OBL, FACW,	or FAC:1_	(A)
2		Total Number of Domin		
3		Species Across All Stra	nta: <u>1</u>	(B)
4		Percent of Dominant S		
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC:100	(A/B)
1. Tamarix ramosissima		Prevalence Index wor	ksheet:	
2.		Total % Cover of:	Multiply	by:
3		OBL species	x 1 =	
4		FACW species	x 2 =	
5		FAC species	x 3 =	
Harl Objectives (Dietains)	55 = Total Cover	FACU species		
Herb Stratum (Plot size:)		UPL species		
1 2		Column Totals:	(A)	(B)
3		Prevalence Index	= B/A =	
4.		Hydrophytic Vegetation		
5		✓ Dominance Test is	>50%	
6.		Prevalence Index i	s ≤3.0 <sup>1</sup>	
7			ptations <sup>1</sup> (Provide s	
8			s or on a separate s	
	= Total Cover	Problematic Hydro	pnytic vegetation (	Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soi	il and wetland hydro	Joay muet
1		be present, unless distr		
2		Hydrophytic		
		Vegetation		
	Cover of Biotic Crust	Present? Ye	s No	
Remarks:				

6-14 7.	Color (moist) 5 YR 4/3 5 YR 4/3	80	Color (moist) 5 YR 4/6 2.5 YR 3/6	20	Type <sup>1</sup> C	M M	Texture silty clay	Remarks
6-14 7.							<u> </u>	
	5 YR 4/3		2.5 YK 3/6			IVI	Slity clay	
Type: C=Conc				 				
Type: C=Conc								
Type: C=Conc								
Type: C=Conc								
Type: C=Conc								
Type: C=Conc								
Type: C=Conc								
	entration D=Der	letion RM	=Reduced Matrix, C	S=Covered	or Coated	d Sand Gra	nins <sup>2</sup> Locati	ion: PL=Pore Lining, M=Matrix.
			LRRs, unless other					r Problematic Hydric Soils <sup>3</sup> :
Histosol (A1	1)		Sandy Red	lox (S5)			1 cm Mud	ck (A9) ( <b>LRR C</b> )
Histic Epipe	don (A2)		Stripped M					ck (A10) ( <b>LRR B</b> )
Black Histic	(A3)		Loamy Mu	cky Mineral	(F1)		Reduced	Vertic (F18)
Hydrogen S	Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Pare	ent Material (TF2)
Stratified La	yers (A5) (LRR	C)	✓ Depleted M	latrix (F3)			Other (Ex	plain in Remarks)
	(A9) ( <b>LRR D</b> )		Redox Dar	,	,			
	elow Dark Surfac	e (A11)	Depleted D				3	
	Surface (A12)		Redox Dep	•	8)			hydrophytic vegetation and
	ky Mineral (S1) ed Matrix (S4)		Vernal Poo	ois (F9)			-	drology must be present, urbed or problematic.
Restrictive Lay	, ,						uniess disti	urbed of problematic.
_	,							
	s):						Hydric Soil Pr	resent? Yes <u>√</u> No
Remarks:							.,	
YDROLOGY								
_	logy Indicators:							
Primary Indicato	ors (minimum of c	ne require	d; check all that app	ly)			<u>Seconda</u>	ry Indicators (2 or more required)
Surface Wa	. ,		Salt Crust	t (B11)			Wat	er Marks (B1) ( <b>Riverine</b> )
High Water	Table (A2)		Biotic Cru	ıst (B12)			Sed	iment Deposits (B2) (Riverine)
✓ Saturation (	A3)		✓ Aquatic Ir		. ,		Drift	Deposits (B3) (Riverine)
Water Mark	s (B1) ( <b>Nonriver</b>	ine)	Hydrogen	Sulfide Od	or (C1)		Drai	nage Patterns (B10)
Sediment D	eposits (B2) (No	nriverine)	Oxidized	Rhizospher	es along L	iving Root	s (C3) Dry-	Season Water Table (C2)
Drift Deposi	ts (B3) (Nonrive	rine)	Presence	of Reduce	d Iron (C4)	)	Cray	fish Burrows (C8)
Surface Soi	l Cracks (B6)		Recent Iro	on Reduction	n in Tilled	Soils (C6)	Satu	ration Visible on Aerial Imagery (C9
Inundation \	Visible on Aerial	Imagery (B	7) Thin Mucl	k Surface (0	C7)		Sha	llow Aquitard (D3)
Water-Stain	ed Leaves (B9)		Other (Ex	plain in Rei	marks)		FAC	-Neutral Test (D5)
Field Observati		'es	No Depth (ir					
Surface Water F			No / Donth (in	nches):		_		
Surface Water F		'es	No <u>▼</u> Deptii (ii					
Surface Water F Water Table Pre Saturation Prese (includes capilla	esent? Y ent? Y ry fringe)	′es <u> </u>	No Depth (ir					Present? Yes <u>√</u> No
Field Observati Surface Water F Water Table Pre Saturation Prese (includes capilla Describe Record	esent? Y ent? Y ry fringe)	′es <u> </u>						resent? Yes <u>V</u> No
Surface Water F Water Table Pre Saturation Prese (includes capilla Describe Record	esent? Y ent? Y ry fringe)	′es <u> </u>	No Depth (ir					resent? Yes <u>v</u> No
Surface Water F Water Table Pre Saturation Prese (includes capilla	esent? Y ent? Y ry fringe)	′es <u> </u>	No Depth (ir					resent? Yes <u>v</u> No

Project/Site: Salton Sea SCH Project	City/County: Imperia	l	Sampling Date:	8-17-11
Applicant/Owner: CDFG, CDWR		State: CA	Sampling Point: _	SP-20
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>14 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): shoreline	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-2</u>
Subregion (LRR): D- Interior Deserts	Lat: 33.12933	Long: -115.696483	Datum	n: Nad 83
		=		
Are climatic / hydrologic conditions on the site typical for	,			
Are Vegetation, Soil, or Hydrology	·	"Normal Circumstances"	_	No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site m				itures, etc.
			, important roc	
	No V Is the Sample		,	
	No within a Wetla	nd? Yes	No <u>√</u>	
Remarks:				
VEGETATION – Use scientific names of p				
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test work		
1		Number of Dominant S That Are OBL, FACW,		(A)
2			'	
3		Total Number of Domir Species Across All Stra		(B)
4		Percent of Dominant S	necies	
Operation of Observations of Photosisses	= Total Cover	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:)  1		Prevalence Index wor	kshoot:	
2.		Total % Cover of:		bv:
3.		OBL species		-
4.		FACW species		
5		FAC species	x 3 =	
	= Total Cover	FACU species		
Herb Stratum (Plot size:)		UPL species		
1		Column Totals:	(A)	(B)
2		Prevalence Index	= B/A =	
4.		Hydrophytic Vegetation		
5		Dominance Test is	>50%	
6.		Prevalence Index i		
7			ptations <sup>1</sup> (Provide s	
8		Problematic Hydro	s or on a separate s	•
Woody Vine Stratum (Plot size:)	= Total Cover	1 Toblematic Hydro	priyac vegetation (	Explain)
1		<sup>1</sup> Indicators of hydric so	il and wetland hydro	ology must
2.		be present, unless dist		
	= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 100 % 0	Cover of Biotic Crust	Vegetation Present? Ye	s No «	/
Remarks:	DOVER OF DIOLIC CHUST	rieseitt fe	s No <u>v</u>	
indina.				

Deptited   Part   Deptited   De	Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of indica	itors.)
0-2 10 YR 4/3 100 none 0 C M loamy sab 2-12 10 YR 4/2 75 10 YR 5/8 25 C M sandy lost  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Reduced (A2) Stripped Matrix (S6) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR C)  Black Histo (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)  Hydrogen Sulfate (A4) Loamy Gleyde Matrix (F2) Red parent Material (TF2)  Straffied Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A1) Depleted Dark Surface (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Reduced Vertic (F18)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F3) Thick Dark Surface (A11) Depleted Dark Surface (F3) Wernal Pools (F9) wetland Hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Depth (inches): Hydric Soil Present? Yes ✓ No Depth (inches): Secondary Indicators (2 or more required)  Surface Water (A11) Soil Crust (B11) Secondary Indicators (2 or more required)  Hydrogen Sulface (B12) Sediment Deposits (B2) (Riverine)  Hydrogen Sulface (G1) Deprise (B19) Dirit Deposits (B3) (Riverine)  Hydrogen Sulface (G1) Deprise (B19) Dirit Deposits (B3) (Riverine)  Surface Water (A15) Soil Crust (B11) Dirit Deposits (B3) (Riverine)  Surface Soil Cracks (B8) Presence of Reduced Iron (C4) Dranage Patterns (B10)  Sediment Deposits (B2) (Nonriverine) Oxidized Riversheres along Living Roots (C3) Dry-Season Water Table (C2) Crydish Burrows (B10)  Surface Water Fresent? Yes No Depth (inches): Sourface W						es .	2		
2-12 10 YR 4/2 75 10 YR 5/8 25 C M sandy loss  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: Pt=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*:  Histosoi (A1) Sandy Rador (S5) 2 cm Muck (A10) (LRR B)  Black Histo; (A3) Loamy Micky Mineral (F1) Reduced Vertic (F1s)  Hydrogen Surfice (A4) Loamy Micky Mineral (F1) Reduced Vertic (F1s)  Stratified Layers (A5) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  2 cm Muck (A9) (LRR D) Redox Dark Surface (F1s)  2 metal Author (A1s) Redox Dark Surface (F1s)  3 metal Author (A1s) Redox Dark Surface (F1s)  4 metal Redox Dark Surface (F1s)  5 secondary Indicators (Propendia)  7 metal Redox Dark Surface (F1s)  8 per leave (F1s)  1 metal Redox Dark Surface (F1s)  2 per leave (F1s)  4 metal Redox Dark Surface (F1s)  4 metal Reduction (F1s)  5 secondary Indicators (F1s)  4 metal Redox Care (F1s)  5 secondary Indicators (F1s)  7 metal Redox Dark Surface (F1s)  8 per leave (F1s)  1 metal Redox Dark Surface (F1s)  1 metal Redox Dark Surface (F1s)  2 per leave (F1s)  4 metal Redox Dark Surface (F1s)  4 metal Redox Dark Surface (F1s)  5 secondary	(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	<u>Texture</u>	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*:  Histos (A1)	0-2	10 YR 4/3	100	none	0	<u>C</u>	M	loamy sa <u></u>	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)	2-12	10 YR 4/2	75	10 YR 5/8	25	С	M	sandy loa	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)									
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)					-				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)						-			
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)					- (				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)									
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)									
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)		-		-	-				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)	1							. 2	
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) To m Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Dark Surface (A12) Redox Depressions (F8) Wetland hydrology must be present, Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, Unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches):  Permary Indicators (minimum of one required; check all that apply) Secondary Indicators (20 r more required) Water Marks (B1) (Nonriverine) Hydric Soil Present? Yes V No Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfice Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burnows (C3) Surface Water (A1) Drainage Patterns (B10) Surface Soil Cracks (B6) Recent Ion Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Saluration Present? Yes No Depth (inches): Water Table Present? Yes Mo Dept							ed Sand G		
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) ✓ Depleted Matrix (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ✓ No  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Salt Crust (B12) Dirit Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Salturation Poposits (B3) (Monriverine) Presence of Reduced from (C4) Craft (B10) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Salturation Visible on Aerial Imagery (C9) Introduction Staltand Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Salturation Present? Yes No ✓ Depth (inches): Salturation Present? Yes No ✓ Depth (inches): Metal Hydrology Present? Yes No ✓ Depth (inches): Salturation Present? Yes No ✓ Depth	-		able to al			ed.)			•
Black Histic (A3)Loamy Mucky Mineral (F1)Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks)		` '							
Hydrogen Sulfide (A4)					, ,	1 (54)			
Startified Layers (A5) (LRR C)					-				
			<b>C</b> \			( (FZ)			
Depleted Below Dark Surface (A11)			<b>(</b> )		, ,	(E6)		Other (Explain ii	(Remarks)
Thick Dark Surface (A12) Redox Depressions (F8) Andy Globy Matrix (S4) Vernal Pools (F9) Restrictive Layer (if present):  Type:			Δ (Δ11)	_		` '			
Sandy Mucky Mineral (S1)			C (A11)					<sup>3</sup> Indicators of hydron	hytic vegetation and
Sandy Gleyed Matrix (S4) unless disturbed or problematic.  Restrictive Layer (if present):		, ,				. 0)			-
Restrictive Layer (if present): Type:					. ( )				
Type:									•
Remarks:    Hydric Soil Present?   Yes _ ✓ No									
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Sulf Crust (B11)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Secondary Indicators (2 or more required)  Water Table (C2) or more required)  Secondary Indicators (2 or more required)  Water Table (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								Hydric Soil Present?	P Yes √ No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Saturation (A3)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Water Table Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits								Tryunc con r resent	163
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)         Drift Deposits (B3) (Nonriverine)	Remarks.								
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)									
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)									
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)									
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	HYDROLO	GY							
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)									
Surface Water (A1)	_			ad: check all that ann	(v)			Secondary Indi	cators (2 or more required)
High Water Table (A2)		•	nie require					<u> </u>	
✓ Saturation (A3)       ✓ Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)         ✓ Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C9)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Saturation Present? (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		` '			,			' <del></del> '	, , ,
Water Marks (B1) (Nonriverine)						- (D40)			
Sediment Deposits (B2) (Nonriverine)	· <del></del>	` ,				, ,			
✓ Drift Deposits (B3) (Nonriverine) — Presence of Reduced Iron (C4) — Surface Soil Cracks (B6) — Recent Iron Reduction in Tilled Soils (C6) — Saturation Visible on Aerial Imagery (C9) — Inundation Visible on Aerial Imagery (B7) — Thin Muck Surface (C7) — Shallow Aquitard (D3) — FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes — No ✓ Depth (inches): — Saturation Present? Yes ✓ No — Depth (inches): Saturation Present? Yes — No — No — Depth (inches): — Wetland Hydrology Present? Yes — No — No — Inundation Visible on Aerial Imagery (C9) — Saturation Visible on Aerial Imagery (C9) — Presented (C7) — Saturation Visible on Aerial Imagery (C9) — Presented (C7) — Saturation Visible						, ,	5		
Surface Soil Cracks (B6)						-	_		
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			rine)						
							ed Soils (Ci	· —	
Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes _ ✓ No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	· <del></del>		lmagery (E	· —					
Surface Water Present? Yes No				Other (Ex	plain in Re	emarks)		FAC-Neutr	al Test (D5)
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 8 Wetland Hydrology Present? Yes ✓ No Depth (inches): 8 Wetland Hydrology Present? Yes ✓ No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observ	vations:							
Saturation Present? Yes No Depth (inches): 8	Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	ches):				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	Present? Y	'es	No <u>✓</u> Depth (in	ches):				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pr	resent? Y	es <u>√</u>	No Depth (in	ches): 8		Wet	land Hydrology Present	t? Yes <u>√</u> No
Remarks:	Describe Red	corded Data (stream	ı gauge, m	ionitoring well, aerial	pnotos, pr	revious in	spections),	if available:	
Remarks:									
	Remarks:								

Project/Site: Salton Sea SCH Project		City/County	r: Imperial			Sampling Date:	8-19-11
Applicant/Owner: CDFG, CDWR, USACE				State:	CA	Sampling Point: _	SP-21
Investigator(s): R. Alvidrez, M. Mazon		Section, To	wnship, Ra	nge: <u>24 / 12S /</u>	12E		
Landform (hillslope, terrace, etc.): terrace		Local relie	f (concave,	convex, none): <u>c</u>	oncave	Slop	e (%): <u>0-1</u>
Subregion (LRR): <u>D - Interior Deserts</u>	Lat: <u>33.</u>	107948		Long: -115.68	32904	Datum	n: Nad 83
				-		ation: N/A	
Are climatic / hydrologic conditions on the site typical for thi							
Are Vegetation, Soil, or Hydrologys	-					resent? Yes	No
Are Vegetation, Soil, or Hydrology				eded, explain an			
SUMMARY OF FINDINGS – Attach site map				·	-	,	itures, etc.
Hydrophytic Vegetation Present? Yes✓ N	No	1- 41	0 1 1				
Hydric Soil Present? Yes N			ne Sampled nin a Wetlar		'as \	No	
Wetland Hydrology Present? Yes <u>√</u> N	No	Witi	iiii a vvetiai	iu: i	es <u> </u>	NO	
Remarks:							
VEGETATION – Use scientific names of plar	nts.						
	Absolute	Dominant	Indicator	Dominance Te	est works	sheet:	
Tree Stratum (Plot size: 20 ft )	% Cover			Number of Dor			
1. Tamarix ramosissima				That Are OBL,	FACW, o	r FAC:4_	(A)
2				Total Number			
3				Species Across	s All Strat	a: <u>4</u>	(B)
4		= Total Co		Percent of Don			) (A/D)
Sapling/Shrub Stratum (Plot size: 20 ft )		10ta100	7701	That Are OBL,	FACW, o	r FAC: 100	) (A/B)
Allenolfrea occidentalis	25	yes	FACW	Prevalence In			
2. Tamarix ramosissima			FAC			Multiply	-
3						x 1 =	
4						x 2 =	
5		= Total Co		· ·		x 3 = x 4 =	
Herb Stratum (Plot size: 30 ft )		_ = 10ta1 Ct	vei			x 5 =	
1. Allenolfrea occidentalis	45	yes	FACW			(A)	
2							
3						= B/A =	
4				Hydrophytic V	_		
5				✓ Dominanc  — Prevalence			
6						≥3.0 tations¹ (Provide s	unnorting
7						or on a separate s	
8		= Total Co		Problemat	ic Hydrop	hytic Vegetation <sup>1</sup> (	Explain)
Woody Vine Stratum (Plot size:)		_ = 10ta1 CC	) V C I				
1						and wetland hydro	
2				-	iess distu	bed of problemati	<b>С</b> .
		= Total Co	over	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum55	er of Biotic C	rust		Present?	Yes	No	
Remarks:				1			

	document the indicator	or confirm the	absence	oi illuicators.)
Depth <u>Matrix</u>	Redox Features			
(inches) Color (moist) % Color (mo	ist) % Type <sup>1</sup>	Loc <sup>2</sup> T	<u>exture</u>	Remarks
<u>0-6</u> <u>10 YR 4/3</u> <u>100</u>		silt	y loam_	clay 50%
<u>6-10</u> <u>7.5 YR 4/4</u> <u>100</u>		clay	/	clay 100%
			<u> </u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Ma	trix CS=Covered or Coate	ed Sand Grains	<sup>2</sup> l oc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unles				for Problematic Hydric Soils <sup>3</sup> :
	ly Redox (S5)		1 cm M	uck (A9) (LRR C)
<del></del>	ped Matrix (S6)			uck (A10) ( <b>LRR B</b> )
Black Histic (A3) Loar	ny Mucky Mineral (F1)	_	_ Reduce	ed Vertic (F18)
Hydrogen Sulfide (A4) Loar	ny Gleyed Matrix (F2)	_	_ Red Pa	rent Material (TF2)
	eted Matrix (F3)		COther (	Explain in Remarks)
l <del></del>	ox Dark Surface (F6)			
	eted Dark Surface (F7)	31		- Character and Administration and
	ox Depressions (F8) al Pools (F9)	-11		of hydrophytic vegetation and nydrology must be present,
Sandy Mucky Milleral (S1) Vern Sandy Gleyed Matrix (S4)	ai F00is (F9)			sturbed or problematic.
Restrictive Layer (if present):			unicoo ui	otarbed or problematic.
Type: clay				
Depth (inches): 10		ну	dric Soil	Present? Yes <u>√</u> No
Remarks:		119	une don	11636Ht: 163 <u>v</u> NO
Soils in this SP are subject to disturbance from ong				
fields and recreational areas. The area within this				
in the area. Local topography allows water to migr	ate to the outer edge o	r bermed area	; thereto	re leading to the proper vegetation.
HYDROLOGY				
Wetland Hydrology Indicators:				
Trouble try at crogy mandatore.	ot apply)			
Primary Indicators (minimum of one required; check all th	at apply)		Secon	dary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all the	t Crust (B11)			dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal			W	<del></del>
Primary Indicators (minimum of one required; check all the Surface Water (A1) Sal Bio	Crust (B11)		W	ater Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all th  Surface Water (A1)	t Crust (B11) tic Crust (B12)		W Se Di	ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> )
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyde	t Crust (B11) tic Crust (B12) tatic Invertebrates (B13) lrogen Sulfide Odor (C1)	Living Roots (C	W Se Di	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyd  Sediment Deposits (B2) (Nonriverine) Oxide	t Crust (B11) tic Crust (B12) tatic Invertebrates (B13) lrogen Sulfide Odor (C1)		W Se Di Di 3) Di	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyo  Sediment Deposits (B2) (Nonriverine) Oxi  Drift Deposits (B3) (Nonriverine) Pre	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) lrogen Sulfide Odor (C1) dized Rhizospheres along	4)	W Se Di Di Ci	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyd  Sediment Deposits (B2) (Nonriverine) Oxi  Drift Deposits (B3) (Nonriverine) Pre  ✓ Surface Soil Cracks (B6) Red	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (C	4)	W Se Di Di Ci Ci Sa	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyd  Sediment Deposits (B2) (Nonriverine) Oxi  Drift Deposits (B3) (Nonriverine) Pre  ✓ Surface Soil Cracks (B6) Red Inundation Visible on Aerial Imagery (B7) Thi	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille	4)	— W — Se — Di — Di 3) — Di — Ci — Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required; check all th  Surface Water (A1) ✓ Sal  High Water Table (A2) Bio  Saturation (A3) Aqu  Water Marks (B1) (Nonriverine) Hyd  Sediment Deposits (B2) (Nonriverine) Oxi  Drift Deposits (B3) (Nonriverine) Pre  ✓ Surface Soil Cracks (B6) Red Inundation Visible on Aerial Imagery (B7) Thi	t Crust (B11) tic Crust (B12) uatic Invertebrates (B13) trogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7)	4)	— W — Se — Di — Di 3) — Di — Ci — Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) tatic Invertebrates (B13) trogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks)	4) d Soils (C6)	— W — Se — Di — Di 3) — Di — Ci — Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)
Primary Indicators (minimum of one required; check all the Surface Water (A1) ✓ Sal High Water Table (A2) Bio Saturation (A3) Aques Water Marks (B1) (Nonriverine) Hyde Sediment Deposits (B2) (Nonriverine) Oxic Drift Deposits (B3) (Nonriverine) Preduction Surface Soil Cracks (B6) Red Inundation Visible on Aerial Imagery (B7) Thie Water-Stained Leaves (B9)	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille in Muck Surface (C7) er (Explain in Remarks)	d Soils (C6)	— W — Se — Di — Di 3) — Di — Ci — Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) uatic Invertebrates (B13) trogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille n Muck Surface (C7) er (Explain in Remarks) upth (inches):	4) d Soils (C6)	W Di Di Ci Si Si	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks) epth (inches): epth (inches):	4) d Soils (C6)  Wetland H	W Di Di Ci Si Si FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks) epth (inches): epth (inches):	4) d Soils (C6)  Wetland H	W Di Di Ci Si Si FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks) epth (inches): epth (inches):	4) d Soils (C6)  Wetland H	W Di Di Ci Si Si FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all th  Surface Water (A1)  ✓ Sal  High Water Table (A2)  — Bio  Saturation (A3)  — Aqu  Water Marks (B1) (Nonriverine)  — Hyu  Sediment Deposits (B2) (Nonriverine)  — Oxi  Drift Deposits (B3) (Nonriverine)  — Pre  ✓ Surface Soil Cracks (B6)  — Reu  Inundation Visible on Aerial Imagery (B7)  — Thi  Water-Stained Leaves (B9)  — Oth  Field Observations:  Surface Water Present?  Yes  — No  — De  Saturation Present?  Yes  — No  — De  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well,	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks) epth (inches): epth (inches):	4) d Soils (C6)  Wetland H	W Di Di Ci Si Si FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all the Surface Water (A1)	t Crust (B11) tic Crust (B12) latic Invertebrates (B13) drogen Sulfide Odor (C1) dized Rhizospheres along sence of Reduced Iron (Cotent Iron Reduction in Tille on Muck Surface (C7) er (Explain in Remarks) epth (inches): epth (inches):	4) d Soils (C6)  Wetland H	W Di Di Ci Si Si FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5)

Applicant/Owner: <u>Cardno Entrix</u> Section. Township. Range: <u>24 / 125 / 125</u> Landform (hillslope, terrace, etc.): <u>Lerrace</u> Local relief (concave, convex, none): <u>Concave</u> Slope (%):
Landform (hillslope, terrace, etc.):   terrace
Submanage   Subm
Soil Map Unit Name: Imperial-glenbar silty clay loams, wet, 0 to 2 percent slopes   NWI classification: N/A   Are climatic / hydrologic conditions on the site typical for this time of year? Yes
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No Nare Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No V within a Wetland? Yes No V within a Wetland? Yes No V within a Wetland? Yes No V Wetland Hydrology Present? Yes No V Yes No
Are Vegetation
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?
Wetland Hydrology Present?   Yes   No   \( \frac{1}{2} \)   Wetland?   Wetland?   Yes   No   \( \frac{1}{2} \)   Wetland?   Wetland?   Yes   N
Hydric Soil Present?         Yes         No         ✓         within a Wetland?         Yes         No         ✓           Remarks:           VEGETATION – Use scientific names of plants.           Tree Stratum (Plot size:)         Absolute
Wetland Hydrology Present?         YesNo
VEGETATION – Use scientific names of plants.           Tree Stratum (Plot size:)         Absolute % Cover Species? Status         Dominant Indicator Species? Status         Number of Dominant Species That Are OBL, FACW, or FAC:
Absolute % Cover   Species?   Status
Absolute % Cover   Species?   Status
Absolute % Cover   Species?   Status
Absolute   Species   Status   Species   Species   Status   Status   Species   Status   Species   Status   Species   Status   Species   Status   Species
Tree Stratum         (Plot size:
2.       Total Number of Dominant Species Across All Strata:       (B)         4.       Percent of Dominant Species That Are OBL, FACW, or FAC:       (A/B)         1.       Prevalence Index worksheet:       Total % Cover of:       Multiply by:         3.       OBL species       x 1 =       FACW species       x 2 =       FACW species       x 2 =       Total % Cover of:       Wultiply by:       Cover of:       Multiply by:       Cover of:       FACU species       x 2 =       Cover of:       Multiply by:       Cover of:       Cov
Species Across All Strata:
Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)
Sapling/Shrub Stratum (Plot size:)           1
1.     Prevalence Index worksheet:       2.     Total % Cover of:     Multiply by:       3.     OBL species     x 1 =       4.     FACW species     x 2 =       5.     FAC species     x 3 =       FACU species     x 4 =     Y 4 =       UPL species     x 5 =     UPL species     Column Totals:     (A)     (B)
3.       OBL species       x 1 =         4.       FACW species       x 2 =         5.       FAC species       x 3 =         FAC species       x 4 =         UPL species       x 5 =         UPL species       x 5 =         Column Totals:       (A)       (B)
4
5
Total Cover   FACU species   x 4 =
Herb Stratum       (Plot size:)         1. Chenopodium spp.       Column Totals:
1. <u>Chenopodium spp.</u> 2 Column Totals: (A) (B)
2
D 1 1 1 D/A
3 Prevalence Index = B/A =
4 Hydrophytic Vegetation Indicators:
5 Dominance Test is >50%
6 Prevalence Index is ≤3.0¹
7 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)
1. Indicators of hydric soil and wetland hydrology must
2 be present, unless disturbed or problematic.
= Total Cover Hydrophytic
% Bare Ground in Herb Stratum 75 % Cover of Biotic Crust Present? Yes No ✓
Remarks:
dead veg. chenopodium (sp) - cannot identify

Profile Desc	ription: (Descri	be to the d	epth ne	eded to docui	ment the i	ndicator	or confirm	the absence	of indicators.)			
Depth	Matri				x Features							
(inches)	Color (moist)	%	<u>C</u>	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks			
0-4	10 YR 4/3							silty loam	clay 10%			
4-10	7.5 YR 4/3							silty clay	clay 75%			
	-								-			
-	-					-						
			_									
¹Type: C=Co	oncentration, D=[	Depletion, R	M=Redu	iced Matrix, CS	S=Covered	d or Coate	d Sand Gr	rains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Ma	trix.		
Hydric Soil I	ndicators: (App	licable to	all LRRs	, unless othe	rwise not	ed.)		Indicators	for Problematic Hydric Soils	s <sup>3</sup> :		
Histosol	(A1)		_	_ Sandy Red	ox (S5)			1 cm N	Muck (A9) (LRR C)			
Histic Ep	ipedon (A2)		_	_ Stripped Ma	atrix (S6)				Muck (A10) ( <b>LRR B</b> )			
Black Histic (A3)				Loamy Mud	•	. ,			ed Vertic (F18)			
	n Sulfide (A4)		_	_ Loamy Gley		(F2)			arent Material (TF2)			
	Layers (A5) (LR	RC)	_	_ Depleted M	, ,	(FO)		Other	(Explain in Remarks)			
	ck (A9) ( <b>LRR D</b> ) I Below Dark Sur	faco (A11)	_	_ Redox Dark _ Depleted D		,						
	rk Surface (A12)		_	_ Redox Dep		. ,		3Indicators	of hydrophytic vegetation and			
	lucky Mineral (S1		_	Vernal Poo		0)		<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,				
	leyed Matrix (S4			<del></del>	,				listurbed or problematic.			
Restrictive L	ayer (if present	):										
Type: <u>cla</u>	V											
Depth (inc	ches): <u>10</u>							Hydric Soil	Present? Yes No	o_ <b>√</b> _		
Remarks:												
and recreati	onal areas. The	area withi	n this SP	is likely a rec	ently dev	eloped w	etland bas	sed on recent	erms for access to agricultur berm-creating activities in the s not develop in central port	ne area.		
HYDROLO		er to mign			Or bernie	u urcu, tri			23 Hot develop in central port			
_	drology Indicato											
	ators (minimum	of one requi	red; che	ck all that appl	у)				ndary Indicators (2 or more req	uired)		
	Water (A1)		-	Salt Crust	` '				Vater Marks (B1) (Riverine)			
<u> </u>	ter Table (A2)		-	Biotic Crus					sediment Deposits (B2) (Riveri	ne)		
Saturatio	, ,		-	Aquatic In					Orift Deposits (B3) (Riverine)			
· <del></del>	arks (B1) ( <b>Nonri</b>	•		Hydrogen					Prainage Patterns (B10)			
	t Deposits (B2) (			Oxidized F		_	-		Ory-Season Water Table (C2)			
	osits (B3) (Nonr	iverine)	-	Presence				· · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)	(00)		
	Soil Cracks (B6)	-1 1	(DZ)	Recent Iro			Solis (Co	-	Saturation Visible on Aerial Ima	gery (C9)		
· <del></del>	on Visible on Aer		(B7)	Thin Muck	,	,		· · · · · · · · · · · · · · · · · · ·	Shallow Aquitard (D3)			
Field Observ	tained Leaves (B	9)		Other (Exp	Diain in Re	marks)	1	<u> </u>	AC-Neutral Test (D5)			
		V	NIa	Danth (in	-h\.							
Surface Wate				Depth (in								
Water Table				Depth (in					<b>.</b>	,		
Saturation Pr (includes cap		Yes	_ No	Depth (in	ches):		_   Wetla	and Hydrolog	y Present? Yes N	o <u> </u>		
	corded Data (stre	am gauge,	monitorii	ng well, aerial	photos, pr	evious ins	pections),	if available:				
Remarks:												

Project/Site: Salton Sea SCH Project	City/County: Imperial Sampling Date:				
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point:	SP-23	
Investigator(s): R. Alvidrez, M. Mazon	Section, Township, Ra	inge: <u>24 / 12S / 12E</u>			
Landform (hillslope, terrace, etc.): <u>terrace</u>	Local relief (concave,	convex, none): concave	Slope	e (%): <u>0-1</u>	
Subregion (LRR): D - Interior deserts	Lat: <u>33.105261</u>	Long: <u>-115.67429</u>	Datum	: Nad 83	
		-			
Are climatic / hydrologic conditions on the site typical for t	,				
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p	_	No	
Are Vegetation, Soil, or Hydrology		eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site map				tures, etc.	
Hydrophytic Vegetation Present? Yes✓	No L 11 2 L				
Hydric Soil Present? Yes			No <u></u> ✓		
Wetland Hydrology Present? Yes	No✓	id: Tes	NO		
Remarks:					
VEGETATION – Use scientific names of pla	nts				
	Absolute Dominant Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 ft )	% Cover Species? Status	Number of Dominant S			
1. Tamarix ramosissima	10 yes FAC	That Are OBL, FACW,		(A)	
2		Total Number of Domin	ant		
3		Species Across All Stra	ıta: <u>2</u>	(B)	
4		Percent of Dominant S			
Sapling/Shrub Stratum (Plot size: 30 ft. )	= Total Cover	That Are OBL, FACW,	or FAC: 100	(A/B)	
1. Allenrolfea occidentalis	65 yes FACW	Prevalence Index wor	ksheet:		
2		Total % Cover of:	Multiply	by:	
3		OBL species			
4		FACW species			
5		FACIL anguing			
Herb Stratum (Plot size:)	65 = Total Cover	FACU species  UPL species			
1		Column Totals:			
2.		Column Totals.	(A)	(B)	
3		Prevalence Index	= B/A =		
4		Hydrophytic Vegetation			
5		✓ Dominance Test is			
6		Prevalence Index i	s ≤3.0° ptations¹ (Provide s		
7			ptations (Provide s s or on a separate s		
8		Problematic Hydro	phytic Vegetation <sup>1</sup> (	Explain)	
Woody Vine Stratum (Plot size:)	= Total Cover				
1		<sup>1</sup> Indicators of hydric soi			
2		be present, unless distr	urbed or problemation	C.	
	= Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum 100 % Cov	ver of Biotic Crust	Vegetation Present? Ye	s <u>√</u> No		
Remarks:					

Profile Description: (Describe to the dept		committe absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features  Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
0-6 10 YR 4/3 100		
6-12 <u>10 YR 4/3</u> <u>100</u>		clay silt l <b>⊕</b> clay 95%
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=		
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) ( <b>LRR C</b> )
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Red Parent Material (TF2) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Out (Explain in Nemarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type: <u>clay</u>	<u>—</u> .	
Depth (inches): 12	<u></u>	Hydric Soil Present? Yes No✓
Remarks:		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	chock all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.	,	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)	✓ Salt Crust (B11)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.  Surface Water (A1)  High Water Table (A2)	✓ Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> </ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	✓ Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1) (Nonriverine)  — Sediment Deposits (B2) (Nonriverine)  — Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S  Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1) (Nonriverine)  — Sediment Deposits (B2) (Nonriverine)  — Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S  Thin Muck Surface (C7)  Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1) (Nonriverine)  — Sediment Deposits (B2) (Nonriverine)  — Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  — Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S )  Thin Muck Surface (C7)  Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S )  Thin Muck Surface (C7)  Other (Explain in Remarks)  lo Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S )  Thin Muck Surface (C7)  Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) ✓ Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Saturation Present? Yes N	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S ) Thin Muck Surface (C7)  Other (Explain in Remarks)  lo ✓ Depth (inches):  lo ✓ Depth (inches):  lo ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S ) Thin Muck Surface (C7)  Other (Explain in Remarks)  lo ✓ Depth (inches):  lo ✓ Depth (inches):  lo ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)	✓ Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Liv  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled S ) Thin Muck Surface (C7)  Other (Explain in Remarks)  lo ✓ Depth (inches):  lo ✓ Depth (inches):  lo ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	✓ Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)  — Oxidized Rhizospheres along Liv  — Presence of Reduced Iron (C4)  — Recent Iron Reduction in Tilled S  ) — Thin Muck Surface (C7)  — Other (Explain in Remarks)  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Initoring well, aerial photos, previous inspections.	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ring Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓ ctions), if available:
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	✓ Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)  — Oxidized Rhizospheres along Liv  — Presence of Reduced Iron (C4)  — Recent Iron Reduction in Tilled S  ) — Thin Muck Surface (C7)  — Other (Explain in Remarks)  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Initoring well, aerial photos, previous inspections.	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	✓ Salt Crust (B11)  — Biotic Crust (B12)  — Aquatic Invertebrates (B13)  — Hydrogen Sulfide Odor (C1)  — Oxidized Rhizospheres along Liv  — Presence of Reduced Iron (C4)  — Recent Iron Reduction in Tilled S  ) — Thin Muck Surface (C7)  — Other (Explain in Remarks)  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Io ✓ Depth (inches):  Initoring well, aerial photos, previous inspections.	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ring Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No✓ ctions), if available:

Project/Site: Salton Sea SCH Project	City/County: Imperial	Sampling Date: 8-17-			
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-24	
Investigator(s): R. Alvidrez, M. Mazon	Section, Township, Ra	inge: <u>24 / 12S / 12E</u>			
Landform (hillslope, terrace, etc.): terrace	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>	
		Long: -115.674253 Datum: Nad 83			
		=			
Are climatic / hydrologic conditions on the site typical	,				
Are Vegetation, Soil, or Hydrology	·	"Normal Circumstances"		No	
Are Vegetation, Soil, or Hydrology		eeded, explain any answe			
				. 4 4	
SUMMARY OF FINDINGS – Attach site	map snowing sampling point i	ocations, transects	s, important tea	itures, etc.	
	No √ Is the Sample	l Area			
	— No <del>✓</del> within a Wetla		No <u> </u>		
	No				
Remarks:					
VEGETATION – Use scientific names of	f plants.				
	Absolute Dominant Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S			
1		That Are OBL, FACW,		(A)	
2		Total Number of Domir	nant		
3		Species Across All Stra	ata:	(B)	
4		Percent of Dominant S			
Sapling/Shrub Stratum (Plot size:	= Total Cover	That Are OBL, FACW,	or FAC:	(A/B)	
1		Prevalence Index wor	ksheet:		
2.		Total % Cover of:	Multiply	by:	
3		OBL species	x 1 =		
4		FACW species	x 2 =		
5		FAC species			
Harb Stratum (Diet aire)	= Total Cover	FACU species			
Herb Stratum (Plot size:)		UPL species			
1 2		Column Totals:	(A)	(B)	
3.		Prevalence Index	c = B/A =		
4.		Hydrophytic Vegetation	on Indicators:		
5		Dominance Test is			
6		Prevalence Index i			
7			ptations <sup>1</sup> (Provide s		
8		Problematic Hydro	s or on a separate s	,	
Manda Vine Charles (Diet sine)	= Total Cover	Floblematic Hydro	priytic vegetation (	Lxpiaiii)	
Woody Vine Stratum (Plot size:)  1		<sup>1</sup> Indicators of hydric so	il and wetland hydro	ology must	
2.		be present, unless dist			
	= Total Cover	Hydrophytic			
0/ Bara Crayed in Harb Strature 100		Vegetation	a Na	/	
	6 Cover of Biotic Crust	Present? Ye	es No_ <u>v</u>		
Remarks:					

Depth Matri (inches) Color (moist		Cold	Redox or (moist)	<u>reatures</u> %	Type <sup>1</sup>	Loc²	Texture	Remarks
		Con	or (moist)		туре	LUC		Remarks
0-8 7.5 YR 4/2	100						silty/sand	
5-10 <u>7.5 YR 4/3</u>	100						clay	<u>clay 100%</u>
· · · · · · · · · · · · · · · · · · ·		_						
Гуре: C=Concentration, D=						d Sand G		cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Ap	plicable to a	II LRRs,	unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sandy Redo	, ,			<del></del>	fluck (A9) (LRR C)
Histic Epipedon (A2)			Stripped Mar					fluck (A10) (LRR B)
Black Histic (A3)			Loamy Muck	-				ed Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gley		(F2)			arent Material (TF2)
Stratified Layers (A5) ( <b>LF</b>			Depleted Ma	, ,			Other	(Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )		_	Redox Dark	`	,			
Depleted Below Dark Sui	. ,		Depleted Da				31 11 1	
Thick Dark Surface (A12)		Redox Depre		-8)			of hydrophytic vegetation and	
<ul><li>Sandy Mucky Mineral (S</li><li>Sandy Gleyed Matrix (S4</li></ul>	_	Vernal Pools	s (F9)				hydrology must be present, isturbed or problematic.	
Restrictive Layer (if present							uniess u	isturbed or problematic.
	.,,.							
Type: clay								
Type: clay							Hydria Sail	Drocont2 Voc No /
Depth (inches): 8							Hydric Soil	Present? Yes No <u>√</u>
Depth (inches): 8 Remarks:							Hydric Soil	Present? Yes No <u>√</u>
Depth (inches): 8 Remarks:  YDROLOGY	nre.						Hydric Soil	Present? Yes No✓
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator		ed: check	all that anniv	0				
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum							Secon	ndary Indicators (2 or more required)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)			_ Salt Crust (	(B11)			Secon	ndary Indicators (2 or more required) /ater Marks (B1) ( <b>Riverine</b> )
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)			_ Salt Crust ( _ Biotic Crus	(B11) t (B12)	(D40)		<u>Secor</u> W S	ndary Indicators (2 or more required) /ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> )
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Surface Water (A1)  High Water Table (A2) Saturation (A3)	of one requir		_ Salt Crust ( _ Biotic Crus _ Aquatic Inv	(B11) t (B12) ertebrates			<u>Secor</u> W S D	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri	of one requir	<u> </u>	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S	(B11) t (B12) rertebrates Sulfide Od	lor (C1)		Secon W S D D	ndary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rrainage Patterns (B10)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2)	of one requir verine) (Nonriverine	<u> </u>	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R	(B11) t (B12) ertebrates Sulfide Od hizospher	lor (C1) res along		Secor W S D D ots (C3) D	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2)  Drift Deposits (B3) (Nonri	of one required verine) (Nonriverine) (iverine)	<u> </u>	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduceo	lor (C1) res along d Iron (C4	)	Secor W S D D ots (C3) D	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) ( Drift Deposits (B3) (Nonry Surface Soil Cracks (B6)	of one required verine) (Nonriverine) (iverine)		Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence co	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced Reduction	lor (C1) res along d Iron (C4 on in Tilled	)	Secor W S D Dots (C3) C C5) S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (C9)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) ( Drift Deposits (B3) (Nonri  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aeri	of one requireverine) (Nonriverine) iverine)		Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck	(B11)  t (B12)  ertebrates Sulfide Od hizospher of Reduced n Reductio Surface (C	lor (C1) res along of d Iron (C4 on in Tilled C7)	)	Secor  — W — S — D — D — D — C — C — S — S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches): 8  Remarks:  YDROLOGY  Netland Hydrology Indicator  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) (  Drift Deposits (B3) (Nonri  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aer  Water-Stained Leaves (B	of one requireverine) (Nonriverine) iverine)		Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence co	(B11)  t (B12)  ertebrates Sulfide Od hizospher of Reduced n Reductio Surface (C	lor (C1) res along of d Iron (C4 on in Tilled C7)	)	Secor  — W — S — D — D — D — C — C — S — S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (C9)
Depth (inches): 8  Remarks:  YDROLOGY  Netland Hydrology Indicator  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) (  Drift Deposits (B3) (Nonri  ✓ Surface Soil Cracks (B6)  Inundation Visible on Aer  Water-Stained Leaves (B	verine) (Nonriverine) (iverine) (ial Imagery (	→ - - - - - - - - - - - - - - - - - - -	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced n Reductio Surface (Clain in Rer	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) I Soils (C6	Secor  — W — S — D — D — D — C — C — S — S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2)  Drift Deposits (B3) (Nonry ✓ Surface Soil Cracks (B6)  Inundation Visible on Aer  Water-Stained Leaves (E	verine) (Nonriverine) iverine) ital Imagery (		Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced Reductio Surface (Clain in Rer	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) I Soils (C6	Secor  — W — S — D — D — D — C — C — S — S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) ( Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (E-Field Observations:	verine) (Nonriverine) iverine) ital Imagery (		Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced Reductio Surface (Clain in Rer	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) I Soils (C6	Secor  — W — S — D — D — D — C — C — S — S	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) ( Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (Berield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	verine) (Nonriverine) itial Imagery (9)  Yes Yes Yes	V	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp  Depth (inc	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced n Reductic Surface (( lain in Rer ches): thes):	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) Soils (Ce	Secor — W — S — D — D — C — C — S — S — F — F	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) (Drift Deposits (B3) (Nonri  Surface Soil Cracks (B6)  Inundation Visible on Aer  Water-Stained Leaves (BF-ield Observations:  Surface Water Present?  Water Table Present?  Saturation Present?	verine) (Nonriverine) itial Imagery (9)  Yes Yes Yes	V	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp  Depth (inc	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced n Reductic Surface (( lain in Rer ches): thes):	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) Soils (Ce	Secor — W — S — D — D — C — C — S — S — F — F	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): 8  Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) ( Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (Berield Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	verine) (Nonriverine) itial Imagery (9)  Yes Yes Yes	V	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp  Depth (inc	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced n Reductic Surface (( lain in Rer ches): thes):	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) Soils (Ce	Secor — W — S — D — D — C — C — S — S — F — F	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B3) (Nonri Sediment Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (E- Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Control of the Marks (B1) Control	verine) (Nonriverine) (iverine) (ial Imagery (9))  Yes Yes Yes eam gauge, r	V	Salt Crust ( Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Other (Exp Depth (inc Depth (inc	(B11) t (B12) ertebrates Sulfide Od hizospher of Reduced n Reductio Surface (Clain in Rer ches): ches):	lor (C1) res along d Iron (C4 on in Tilled C7) marks)	) Soils (Ce	Secor	ndary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Salton Sea SCH Project	t	Ci	ty/County: Imperial			Sampling Date:	8-17-11
Applicant/Owner: CDFG, CDWR, USA	ACE			State:	CA	Sampling Point:	SP-26
Investigator(s): M. Simmons, I. Wat	son	S	ection, Township, Ra	nge: <u>24 / 12S /</u>	′ 12E		
Landform (hillslope, terrace, etc.): ter	race	L	ocal relief (concave,	convex, none): <u>(</u>	concave	Slope	e (%): <u>0-1</u>
Subregion (LRR): <u>D - Interior Deser</u>	ts	Lat: <u>33.1</u> 2	173179	_ Long: <u>-115.6</u>	803202	Datum	ı: Nad 83
Soil Map Unit Name: Not available				NW	'I classific	ation: L1UBH	
Are climatic / hydrologic conditions on			,				
Are Vegetation, Soil, o		-				resent? Yes <u>√</u>	No
Are Vegetation, Soil, o				eeded, explain a			
SUMMARY OF FINDINGS – A					-		tures etc
						, portant roa	
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes		Is the Sampled	l Area		_	
Wetland Hydrology Present?	,		within a Wetlar	nd?	res	No <u>√</u>	
Remarks:	100						
VEGETATION - Use scientific	c names of pla	ants.					
		Absolute	Dominant Indicator	Dominance T	est work	sheet:	
Tree Stratum (Plot size:			Species? Status	Number of Do			
1				That Are OBL	, FACW, o	or FAC:	(A)
2				Total Number			(5)
3				Species Acros	ss All Stra	ta:	(B)
4			Total Cover	Percent of Do			(A /D)
Sapling/Shrub Stratum (Plot size:	)		Total Cover	That Are OBL	, FACVV, (	or FAC:	(A/B)
1				Prevalence In			
2						Multiply	
3						x 1 =	
4						x 2 =	
5						x 3 = x 4 =	
Herb Stratum (Plot size:	)	<del></del> -	Total Cover	-			
1						(A)	
2							
3						= B/A =	
4					-	on Indicators:	
5				Dominand			
6				Prevalend		s ≤3.0° otations¹ (Provide s	unnartina
7						s or on a separate s	
8				Problema	tic Hydror	ohytic Vegetation <sup>1</sup> (	Explain)
Woody Vine Stratum (Plot size:	)		Total Cover				
1.						and wetland hydro	
2				be present, ur	iless distu	rbed or problemation	C.
		=	Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum	100 % Co	ver of Biotic Cru	st	Vegetation Present?	Yes	s No_ <i>⊻</i>	<u>/</u>
Remarks:	<u> </u>						<del>_</del>

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix			x Feature	es	. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	5 Y 5/2	90	10 YR 5/6	10	С	M		
6-12	Gley1 2.5/N	100						
				-	-			
			-					
				_				
¹Type: C=Co	ncentration. D=Den	letion. RM	I=Reduced Matrix, C	S=Covere	d or Coat	ed Sand Gr	rains. <sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			ou ound or		Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			(A9) ( <b>LRR C</b> )
	ipedon (A2)		Stripped M					(A10) ( <b>LRR B</b> )
Black His			Loamy Mud	cky Minera	al (F1)		Reduced V	
✓ Hydroge	n Sulfide (A4)		✓ Loamy Gle	yed Matrix	(F2)		Red Parent	t Material (TF2)
Stratified	Layers (A5) (LRR	C)	✓ Depleted M	latrix (F3)			Other (Exp	lain in Remarks)
	ck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	Below Dark Surfac	e (A11)	Depleted D				3	
	rk Surface (A12)		Redox Dep		(F8)			ydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo	IS (F9)				ology must be present,
	leyed Matrix (S4)  ayer (if present):						uniess distun	bed or problematic.
	haa);						Undria Cail Bras	neut? Vee / Ne
. `	ches):						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
_			ed; check all that app	lv)			Secondary	/ Indicators (2 or more required)
Surface			Salt Crust					Marks (B1) ( <b>Riverine</b> )
	ter Table (A2)		✓ Biotic Cru	` '			· · · · · · · · · · · · · · · · · · ·	nent Deposits (B2) (Riverine)
✓ Saturatio			Aquatic In		es (B13)			Deposits (B3) (Riverine)
	arks (B1) ( <b>Nonrive</b> r	rine)	Aquatic in					age Patterns (B10)
· · · · · · · · · · · · · · · · · · ·	it Deposits (B2) ( <b>No</b>	•				Living Roc	· · · · · · · · · · · · · · · · · · ·	eason Water Table (C2)
	osits (B3) (Nonrive		Presence		_	_		sh Burrows (C8)
	Soil Cracks (B6)	11110)	Recent Iro					ation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imageny (F				su oons (oc	· —	ow Aquitard (D3)
· <del></del>	tained Leaves (B9)	iiiageiy (L	Other (Ex		. ,		·	Neutral Test (D5)
Field Observ			Other (EX	piaiii iii ixe	erriarks)		1 AO-1	vedital rest (D3)
		/oo	No / Donth (in	oboo).				
Surface Wate			No ✓ Depth (in			<del></del>		
Water Table			No Depth (in			—		
Saturation Pr (includes cap		′es <u>√</u>	No Depth (in	iches): <u>0</u>		Wetl	and Hydrology Pre	esent? Yes <u>√</u> No
		n gauge, m	onitoring well, aerial	photos, pr	revious in	spections),	if available:	
	`	. ·	<u>.</u>			. "		
Remarks:								
. toai no.								

Project/Site: Salton Sea SCH Projec	<u>t</u>	C	ity/County: Imperia	ıl		Sampling Date:	8-19-11	
Applicant/Owner: CDFG, CDWR, USA	ACE			State:	CA	Sampling Point:	SP-27	
Investigator(s): M. Simmons, I. Wat	son	S	ection, Township, R	ange: <u>24 / 12S /</u>	12E			
Landform (hillslope, terrace, etc.): ter	race	L	ocal relief (concave,	, convex, none): <u>(</u>	concave	Slope	e (%): <u>0-1</u>	
Subregion (LRR): D - Interior Deser	ts	Lat: <u>33.1</u>	193387	Long: <u>-115.6</u>	Long: <u>-115.6735804</u> Datum: <u>Nad 83</u>			
Soil Map Unit Name: Holtville silty c	lay, wet			NW.	'I classific	ation: L1UBH		
Are climatic / hydrologic conditions on	the site typical for t	this time of year	? Yes ✓ No	(If no, ex	plain in R	emarks.)		
Are Vegetation, Soil, or		_				resent? Yes <u>√</u>	No	
Are Vegetation, Soil, or				needed, explain a	ny answe	rs in Remarks.)		
SUMMARY OF FINDINGS – A				locations, tra	nsects	, important fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes	No ✓	la tha Cammia	d Auss				
Hydric Soil Present?	Yes		Is the Sample within a Wetla		/as	No <u></u>		
Wetland Hydrology Present?	Yes	No <u> </u>	within a wetta	iliu :		NO		
Remarks:								
VEGETATION – Use scientific	c names of pla	ants.						
Tree Stratum (Plot size:	)		Dominant Indicator Species? Status	Dominance T				
1				I Nullibel of Do		oecies or FAC:	(A)	
2.							( )	
3				Total Number Species Acros			(B)	
4				Percent of Do	minant Sr	pecies		
Sapling/Shrub Stratum (Plot size:	,	=	= Total Cover			or FAC:	(A/B)	
1				Prevalence Ir	ndex wor	ksheet:		
2.				Total % C	over of:	Multiply	by:	
3.				OBL species		x 1 =		
4				FACW specie	s	x 2 =		
5						x 3 =		
Herb Stratum (Plot size:	)	=	= Total Cover			x 4 =		
1						x 5 =		
2.				- Column Totals	3:	(A)	(B)	
3.				Prevaler	nce Index	= B/A =		
4.				Hydrophytic	Vegetatio	on Indicators:		
5				Dominand				
6				Prevalence				
7				Morpholo data ir	gical Ada ı Remarks	ptations <sup>1</sup> (Provide s s or on a separate s	upporting heet)	
8						ohytic Vegetation <sup>1</sup> (	•	
Woody Vine Stratum (Plot size:	)		= Total Cover					
1						and wetland hydro		
2				be present, ur	ness disti	irbed or problemation	C.	
		=	= Total Cover	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	100 % Cov	ver of Biotic Cru	ıst	Present?	Ye	s No	<u></u>	
Remarks:								

Profile Des	cription: (Describe	to the de	oth needed to docum	nent the	indicator	or confirm	the absence	of indicators.)			
Depth	Matrix			x Feature		2					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks			
0-8	2.5 Y 4/2	90	10 YR 4/6	10	<u>C</u>	M					
8-14	2.5 Y 5/2	75	10 YR 5/8	25	<u>C</u>	M					
				· · <u></u>							
				· -							
			=Reduced Matrix, CS			d Sand Gr		ation: PL=Pore Lining, M=Matrix.			
-		cable to al	LRRs, unless other		ed.)			for Problematic Hydric Soils <sup>3</sup> :			
Histoso	• •		Sandy Redo	. ,				luck (A9) (LRR C)			
	Epipedon (A2)		Stripped Ma		J (E1)			luck (A10) ( <b>LRR B</b> ) ed Vertic (F18)			
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)								arent Material (TF2)			
	ed Layers (A5) ( <b>LRR</b>	C)	✓ Depleted Ma		. ()			Explain in Remarks)			
	uck (A9) ( <b>LRR D</b> )	,	Redox Dark	, ,	(F6)		<u> </u>				
Deplete	ed Below Dark Surfa	ce (A11)	Depleted Da								
	ark Surface (A12)		Redox Depr		F8)			of hydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland hydrology must be present,				
	Gleyed Matrix (S4)  Layer (if present):						unless di	sturbed or problematic.			
	Layer (II present):										
Type:	I V-						I I and a Control	Duranto Var			
Remarks:	nches):						Hydric Soil	Present? Yes No <u>√</u>			
conditions	may have been w	etter thar		ese feat	ures have	e persiste	d even thoug	in the recent or distant past when hwetland hydrology may no longer ns.			
HYDROLO	OGY										
Wetland Hy	drology Indicators	:									
Primary Ind	icators (minimum of	one require	d; check all that apply	y)			Secon	dary Indicators (2 or more required)			
Surface	e Water (A1)		Salt Crust	(B11)			W	ater Marks (B1) (Riverine)			
High W	ater Table (A2)		Biotic Crus	st (B12)			Se	ediment Deposits (B2) (Riverine)			
Saturat	ion (A3)		Aquatic Inv	ertebrate/	es (B13)		Dr	rift Deposits (B3) (Riverine)			
Water I	Marks (B1) ( <b>Nonrive</b>	rine)	Hydrogen	Sulfide O	dor (C1)		Dr	rainage Patterns (B10)			
Sedime	ent Deposits (B2) (No	onriverine)	Oxidized R	Rhizosphe	res along	Living Roc	ots (C3) Dr	ry-Season Water Table (C2)			
✓ Drift De	eposits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C4	1)	Cr	rayfish Burrows (C8)			
✓ Surface	e Soil Cracks (B6)		Recent Iro	n Reducti	ion in Tille	d Soils (C6	5) Sa	aturation Visible on Aerial Imagery (C9)			
	tion Visible on Aerial				` '			nallow Aquitard (D3)			
	Stained Leaves (B9)		Other (Exp	lain in Re	emarks)		FA	AC-Neutral Test (D5)			
Field Obse			,								
			No ✓ Depth (inc								
Water Table			No <u>✓</u> Depth (inc								
	apillary fringe)		No <u>√</u> Depth (inc					Present? Yes No			
Describe Re	ecorded Data (strear	n gauge, m	onitoring well, aerial p	photos, pr	evious ins	pections),	it available:				
_											
Remarks:											
-		rs observ	ved are conside	red reli	c from	previou	s years hyd	rology and not an indicator			
of recent	t hydrology.										

Project/Site: Salton Sea SCH Project	City/County: Imperial	<u> </u>	Sampling Date:	8-19-11
Applicant/Owner: CDFG, CDWR, USACE		State: CA	Sampling Point: _	SP-28
Investigator(s): M. Simmons, I. Watson	Section, Township, Ra	ange: <u>13 / 12S / 12E</u>		
Landform (hillslope, terrace, etc.): <u>terrace</u>	Local relief (concave,	convex, none): concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deserts	Lat: <u>33.1261896</u>	_ Long: -115.6690076	Datum	ı: <u>Nad 83</u>
Soil Map Unit Name: Imperial-glenbar silty clay lo		=		
Are climatic / hydrologic conditions on the site typical f	,			
Are Vegetation, Soil, or Hydrology	•	"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site n				ituros oto
SOMMANT OF FINDINGS - Attach site in	inap showing sampling point i	——————————————————————————————————————	, important lea	
	No Is the Sample	d Area		
	No within a Wetla	nd? Yes <u>√</u>	No	
Wetland Hydrology Present? Yes <u>√</u> Remarks:	No			
Remarks.				
VEGETATION – Use scientific names of	plants.			
	Absolute Dominant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S		(4)
1		That Are OBL, FACW,	or FAC:Z_	(A)
2 3		Total Number of Domin		(B)
4		Species Across All Stra		(D)
	= Total Cover	Percent of Dominant Sp That Are OBL, FACW,		) (A/R)
Sapling/Shrub Stratum (Plot size:)				<u>/ (/UD)</u>
1. Tamarix ramosissima		Prevalence Index wor		
2. Allenrolfea occidentalis		Total % Cover of:	· ·	_
3		OBL species		
4 5		FAC species		
J		FACU species		
Herb Stratum (Plot size:)		UPL species		
1		Column Totals:		
2		Dravalanas Inday	- D/A -	
3		Hydrophytic Vegetation	= B/A =	
4		✓ Dominance Test is		
5 6		Prevalence Index is		
7			ptations <sup>1</sup> (Provide s	upporting
8			s or on a separate s	,
	= Total Cover	Problematic Hydro	phytic Vegetation' (	Explain)
Woody Vine Stratum (Plot size:)		1 maliantam of budgin on		
1		<sup>1</sup> Indicators of hydric soi be present, unless distu		
2		Hydrophytic		
100	= Total Cover	Vegetation	,	
	Cover of Biotic Crust	Present? Ye	s No	_
Remarks:				

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of in	ndicators.)
Depth	Matrix			x Feature	es .	2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	2.5 Y 4/2	93	10 YR 5/8	7	<u>C</u>	M		
4-14	2.5 Y 4/1	80	10 TY 5/8	20	С	М		
		- '			-			
				_				
					-			
				_				
						· ——		
			I=Reduced Matrix, C			ed Sand G		n: PL=Pore Lining, M=Matrix.
-		able to al	I LRRs, unless othe		ed.)			Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					(A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M	` '				(A10) ( <b>LRR B</b> )
Black His	` '		Loamy Mud				Reduced V	
	n Sulfide (A4)	•	Loamy Gle	-	(F2)			Material (TF2)
	Layers (A5) (LRR (	C)	✓ Depleted M	, ,	(FO)		Other (Expl	lain in Remarks)
	ick (A9) ( <b>LRR D</b> ) d Below Dark Surfac	o (A11)	Redox Dark		` '			
	ark Surface (A12)	e (ATT)	Depleted D Redox Dep				<sup>3</sup> Indicators of hy	drophytic vegetation and
	lucky Mineral (S1)		Vernal Poo		(10)		-	ology must be present,
	Bleyed Matrix (S4)		vernari oo	13 (1 3)			-	bed or problematic.
	ayer (if present):							5 c c p c 5 c c c c c c c c c c c c c c
Type:	,							
	ches):						Hydric Soil Pres	sent? Yes √ No
	Jiles)						Hydric 30ii Fres	Selit: 162 <u>4</u> 140
Remarks:								
HYDROLO	GV							
_	drology Indicators:							
-		one require	ed; check all that app					Indicators (2 or more required)
Surface	` ,		✓ Salt Crust	` '				Marks (B1) (Riverine)
	ter Table (A2)		Biotic Cru					ent Deposits (B2) (Riverine)
✓ Saturation	on (A3)		Aquatic In	vertebrate	es (B13)		Drift D	eposits (B3) (Riverine)
Water M	arks (B1) (Nonriver	ine)	Hydrogen	Sulfide O	dor (C1)		Draina	age Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	✓ Oxidized I	Rhizosphe	eres along	Living Ro	ots (C3) Dry-Se	eason Water Table (C2)
Drift Dep	oosits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C	4)	Crayfis	sh Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	on Reducti	ion in Tille	ed Soils (Co	6) Satura	ation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (E	37) Thin Mucl	k Surface	(C7)		Shallo	w Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-N	Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	iches):				
Water Table			No Depth (in					
Saturation Pr			No Depth (in				land Hydrology Pre	esent? Yes <u>√</u> No
(includes cap		cs <u> </u>	No Deptil (iii	iciies). <u>U</u>		_   ****	iana riyarology Fre	165 <u>v</u> 10
		n gauge, m	onitoring well, aerial	photos, pr	revious in	spections),	if available:	
Remarks:								

Project/Site: Salton Sea SCH Project	<u>t</u>	C	ity/County: Imperia	l		Sampling Date: _	8-19-11
Applicant/Owner: CDFG, CDWR, USA	<u>«СЕ</u>			State:	CA	Sampling Point: _	SP-29
Investigator(s): M. Simmons, I. Wats	son	S	Section, Township, Ra	ange: <u>13 / 12S /</u>	12E		
Landform (hillslope, terrace, etc.): terr	ace	L	ocal relief (concave,	convex, none):	concave	Slop	e (%): <u>0-1</u>
Subregion (LRR): D - Interior Deser	ts	Lat: <u>33.1</u>	262407	_ Long: <u>-115.6</u>	687174	Datun	n: Nad 83
Soil Map Unit Name: Imperial-glenb	ar silty clay loams	s, wet, 0 to 2	percent slopes	NW	/I classific	cation: L1UBH	
Are climatic / hydrologic conditions on t	the site typical for th	is time of yea	r? Yes <u>√</u> No _	(If no, ex	plain in R	Remarks.)	
Are Vegetation, Soil, or	· Hydrology	significantly d	isturbed? Are	"Normal Circums	stances" p	oresent? Yes <u>√</u>	, No
Are Vegetation, Soil, or	· Hydrology	naturally prob	elematic? (If n	eeded, explain a	ny answe	rs in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map	showing	sampling point	locations, tra	nsects	, important fea	atures, etc
Hydrophytic Vegetation Present?	Yes <u>√</u> N	No	In the Country	1.4			
Hydric Soil Present?	Yes ✓ N		Is the Sampleo within a Wetla		V05 - 1	, No	
Wetland Hydrology Present?	Yes <u>√</u> N	No	within a wetta	iiu r	162 <u> </u>	NO	
Remarks:							
VEGETATION – Use scientific	names of plan	nte					
VEGETATION - OSE SCIENTING	- Ilailles Oi piai		Dominant Indicator	Dominance T	est work	sheet	
Tree Stratum (Plot size:	)		Species? Status	Number of Do			
1				That Are OBL			(A)
2				Total Number	of Domin	ant	
3				Species Acros	ss All Stra	nta:	(B)
4				Percent of Do			
Sapling/Shrub Stratum (Plot size:	)	<del></del>	= Total Cover	That Are OBL	, FACW,	or FAC:	(A/B)
1				Prevalence In	ndex wor	ksheet:	
2						Multiply	
3						x 1 =	
4						x 2 =	
5						x 3 = x 4 =	
Herb Stratum (Plot size:	)		= Total Cover				
1						(A)	
2							
3						= B/A =	
4				1	_	on Indicators:	
5				Dominand			
6.						s ≤3.0 ptations¹ (Provide s	sunnortina
7 8				data ir	Remark	s or on a separate	sheet)
· · · · · · · · · · · · · · · · · · ·			= Total Cover	✓ Problema	tic Hydro	phytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:	)		rotar cover				
1						il and wetland hydro urbed or problemati	
2						a. 200 of problemati	
			= Total Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	100 % Cove	er of Biotic Cru	ust	Present?	Ye	s <u>√</u> No	
Remarks:  No vegetation present likely							

No vegetation present likely resulting from natural fluctuations in the water level of the Salton Sea, drought conditions typical of the region, the increasing salinity of the sea water present within the wetland and soils, and the runoff from the surrounding agricultural practices.

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence of in	ndicators.)	
Depth Matrix		Redox Features			. 2				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-8	2.5 Y 4/2	90	10 YR 5/6	_10	<u>C</u>	M			
8-14	2.5 Y 5/2	85	10 YR 4/6	15	<u>C</u>	M			
				-					
	-								
	-		-						
¹Type: C=Co	oncentration. D=Der	oletion. RM	=Reduced Matrix, CS	S=Covere	d or Coate	d Sand Gr	rains. <sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.	
			LRRs, unless other					Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck	(A9) (LRR C)	
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck	(A10) ( <b>LRR B</b> )	
Black Hi	stic (A3)		Loamy Muc	ky Minera	al (F1)		Reduced V	ertic (F18)	
	n Sulfide (A4)		Loamy Gley		(F2)			: Material (TF2)	
	Layers (A5) (LRR	C)	✓ Depleted M	` ,			Other (Expl	ain in Remarks)	
	ick (A9) (LRR D)	(0.4.4)	Redox Dark		. ,				
	d Below Dark Surfac ark Surface (A12)	ce (A11)	Depleted Depleted Dep				3Indicators of h	drophytic vegetation and	
	fucky Mineral (S1)		Vernal Pool		F0)			ology must be present,	
-	Bleyed Matrix (S4)		vernar i oor	3 (1 3)			-	ped or problematic.	
	_ayer (if present):								
Type:	, , ,								
• • • • • • • • • • • • • • • • • • • •	ches):						Hydric Soil Pres	sent? Yes <u>√</u> No	
Remarks:			<del></del>				,		
remano.									
HYDROLO									
Wetland Hyd	drology Indicators	:							
Primary Indic	cators (minimum of o	one require	d; check all that appl	y)			<u>Secondary</u>	Indicators (2 or more required)	
Surface	Water (A1)		✓ Salt Crust	(B11)			Water	Marks (B1) (Riverine)	
High Wa	iter Table (A2)		Biotic Crus	st (B12)			Sedim	ent Deposits (B2) (Riverine)	
Saturation	on (A3)		✓ Aquatic In	vertebrate	es (B13)		Drift Deposits (B3) (Riverine)		
Water M	arks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Draina	age Patterns (B10)	
Sedimer	nt Deposits (B2) (No	onriverine)	Oxidized F	Rhizosphe	eres along	Living Roo	ots (C3) Dry-Se	eason Water Table (C2)	
✓ Drift Dep	oosits (B3) ( <b>Nonrive</b>	erine)	Presence	of Reduce	ed Iron (C4	1)	Crayfis	sh Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reduct	ion in Tille	d Soils (C6	C6) Saturation Visible on Aerial Imagery (C9)		
Inundation	on Visible on Aerial	Imagery (B	7) Thin Muck	Surface	(C7)		Shallow Aquitard (D3)		
Water-S	tained Leaves (B9)		Other (Exp	olain in Re	emarks)		FAC-N	leutral Test (D5)	
Field Observ	vations:								
Surface Water	er Present?	res	No <u>✓</u> Depth (in	ches):		_			
Water Table	Present?	Yes	No <u>✓</u> Depth (in	ches):		_			
Saturation Pr	resent?	res	No <u>✓</u> Depth (in	ches):		Wetla	and Hydrology Pre	esent? Yes <u>√</u> No	
(includes cap	oillary fringe)								
Describe Red	corded Data (strean	n gauge, m	onitoring well, aerial	photos, pr	evious ins	pections),	ıt available:		
Remarks:									

#### APPENDIX C – JURISDICTIONAL DATA SUMMARY TABLE



Drainage	Drainage Name	Jurisdictional Feature	онwм	Bank to Bank	Drainage Habitat Type <sup>1</sup>	Hydrology
Drainage 1	Poe Lateral	Ephemeral	4		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 2	Unnamed	Ephemeral	2		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 3	Unnamed	Ephemeral	4		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 4	Trifolium Drain 1	Ephemeral	40		Tamarisk scrub	Irrigation-related waters flowing from the direction of agricultural lands to the Salton Sea.
Drainage 5	Unnamed	Ephemeral	4		lodine bush scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 6	Unnamed	Ephemeral	8		lodine bush scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 7	Thistle Lateral 8	Ephemeral	16, 4		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 8	Unnamed	Ephemeral	4		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.

Drainage	Drainage Name	Jurisdictional Feature	онwм	Bank to Bank	Drainage Habitat Type <sup>1</sup>	Hydrology
Drainage 9	Unnamed	Ephemeral	4		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 10	Unnamed	Ephemeral	10		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 11	Unnamed	Ephemeral	10		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 12	Unnamed	Ephemeral	10		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 13	Trifolium Lateral 12	Ephemeral	7		Agriculture dominates the upstream portion of the New River, while Tamarisk Scrub and Common Reed Marshes dominate the downstream portion.	Irrigation-related waters flowing from the direction of agricultural lands to the Salton Sea.
Drainage 14	New River	Perennial	30	80	Agriculture dominates the upstream portion of the New River, while Tamarisk Scrub and Common Reed Marshes dominate the downstream portion within the Project boundary.	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 15	Unnamed	Ephemeral	14		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.

Drainage	Drainage Name	Jurisdictional Feature	онwм	Bank to Bank	Drainage Habitat Type <sup>1</sup>	Hydrology
Drainage 16	Trifolium 12 Drain	Ephemeral	5		Ruderal/Disturbed due to agricultural practices	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 17	Unnamed	Ephemeral	5		Ruderal/Disturbed due to agricultural practices	Irrigation-related water regime. Indicators of an OHWM were present.
Drainage 18	Unnamed	Ephemeral	5		Ruderal/Disturbed due to agricultural practices	Irrigation-related water regime. Indicators of an OHWM were present.
Drainage 19	Trifolium Lateral 11	Ephemeral	5		Ruderal/Disturbed due to agricultural practices	Irrigation-related water regime. Indicators of an OHWM were present.
Drainage 20	Trifolium 11 Drain	Ephemeral	5		Ruderal/Disturbed due to agricultural practices	Irrigation-related water regime that discharges to the Salton Sea
Drainage 21	Unnamed	Ephemeral	6		Ruderal/Disturbed due to agricultural practices	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 22	Unnamed	Ephemeral	10		lodine bush scrub	Water flowing from the direction of agricultural lands to the Salton Sea.

Drainage	Drainage Name	Jurisdictional Feature	ОНWМ	Bank to Bank	Drainage Habitat Type <sup>1</sup>	Hydrology
Drainage 23	Unnamed	Ephemeral	13		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 24	Unnamed	Ephemeral	20		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.
Drainage 25	Unnamed	Ephemeral	10		Tamarisk scrub	Water flowing from the direction of agricultural lands to the Salton Sea.

#### Notes:

<sup>&</sup>lt;sup>1</sup>Drainages were contained within the wetland portion of the Project area, and the habitat type reflects the wetland vegetation present adjacent to the drainage. Drainage 14 (New River) was the only drainage that supported riparian habitat.

U

A

В

E

R

S

G

R

0

